

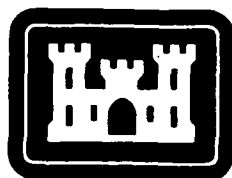
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# WATERBORNE COMMERCE OF THE UNITED STATES

*Calendar Year* 1987

PART 3  
WATERWAYS AND HARBORS  
GREAT LAKES



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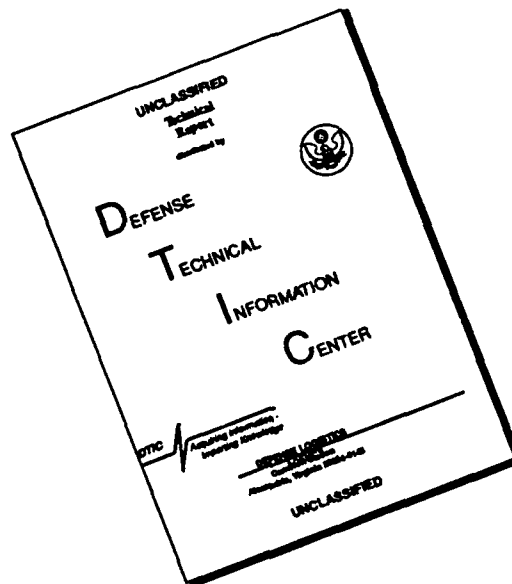
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DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

WATER RESOURCES SUPPORT CENTER

WRSC-WCUS 87-3

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Waterborne Commerce of the United States (WCUS), Part 3, Calendar Year 1987 is one of a series of five publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 3, presents detailed data by commodity and traffic for the waterways and harbors on the Great Lakes. The statistics include commodities given in short tons (2000 lbs.) and vessel trips for the harbors and waterways.					
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**WATERBORNE COMMERCE  
OF THE UNITED STATES  
CALENDAR YEAR 1987**

**PART 3  
WATERWAYS AND HARBORS  
GREAT LAKES**

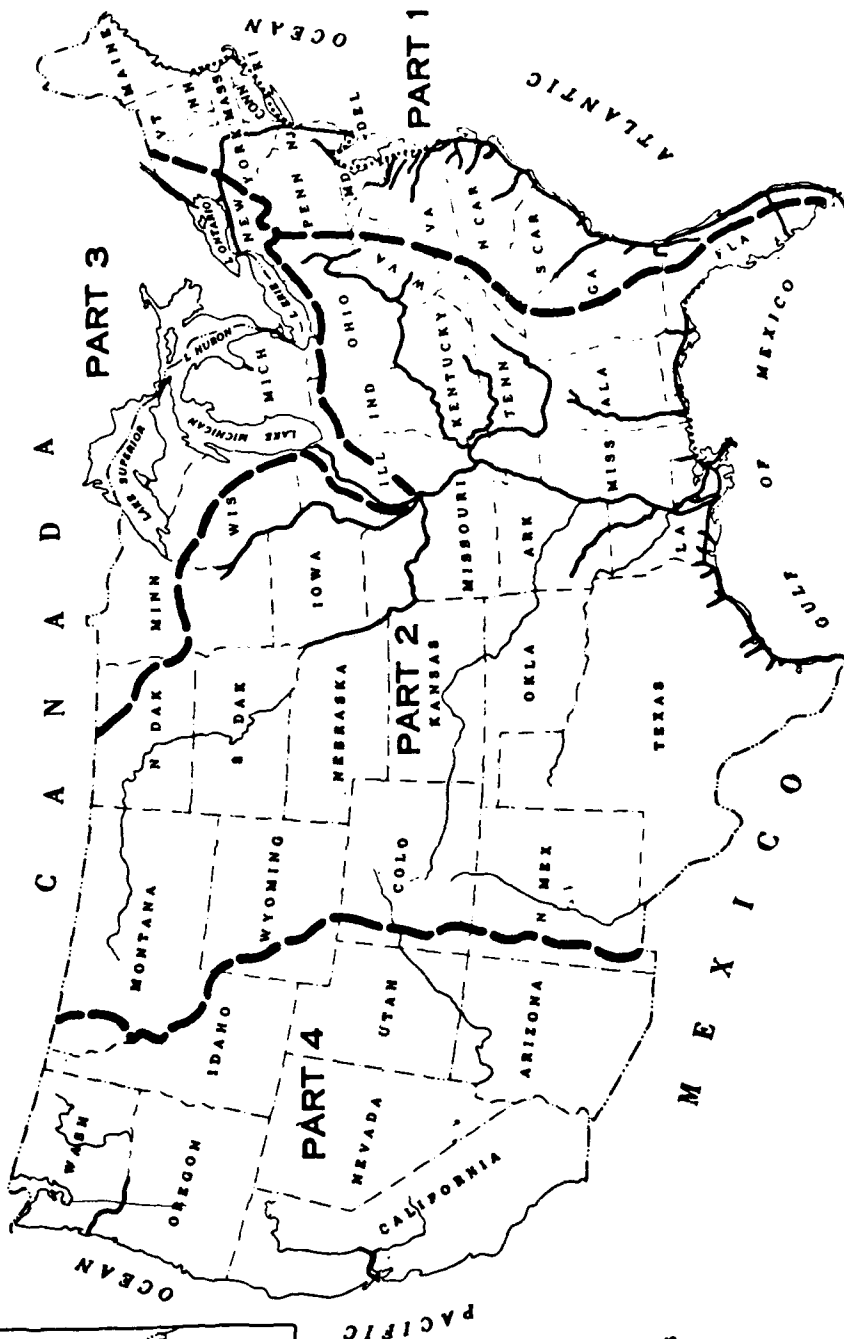
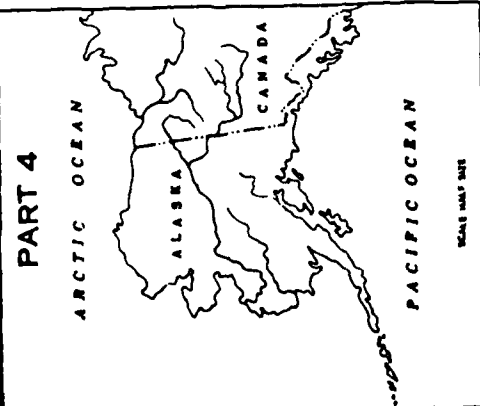
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Geographical Areas Covered by  
Waterborne Commerce Statistics Publications  
of the  
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS  
(Heavy broken lines indicate the limits embraced by  
each part of the five-part series)



INLAND WATERWAYS LEGEND

- PRINCIPAL IMPROVED WATERWAYS
- ..... (IN OPEN WATER)

**PART 4**

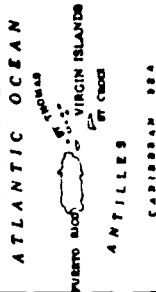
PACIFIC OCEAN



WATERBORNE COMMERCE OF THE UNITED STATES

- Part 1 - Atlantic Coast
- Part 2 - Gulf Coast, Mississippi River System and Antilles
- Part 3 - Great Lakes
- Part 4 - Pacific Coast, Alaska and Hawaii
- Part 5 - Waterborne Commerce of the United States  
(National Summary)

**PART 2**



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This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1987. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

#### Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce moved on United States waters are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922; as amended by Section 919 of the 1986 Water Resources Development Act.

Section 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section, shall for each and every offense, be liable to a fine of \$5,000 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the island rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1987 but not reported to the Corps of Engineers until after 28 February 1988 will be included in the next year's, 1988, statistics rather than in this publication, while reports of movements completed in 1986 but reported to the Corps after 28 February 1987 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intransit merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense Controlled Cargo and Special Category Items."

The 1987 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1987 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only, cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels—neither the carriage on the oceans nor the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," is taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals, and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling; however, the number of towboat trips are calculated from better than 70-percent of the total number of towboat moves reported and the number of barge trips are derived from better than 85-percent of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluding from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, those vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped—either tied to a dock or at anchor. The draft under way—while the vessel is moving—is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1987 in Bar Harbor, Lubec, Eastport and Portland Harbor.

Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1987 of harbors and waterways in the area covered by this part of the statistics series.

SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

#### TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

##### Pertaining to Ports

**Imports and Exports.** These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of the U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

**Coastwise Receipts and Shipments.** These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water, therefore, traffic confined to these areas in "internal" rather than "coastwise."

**Lakewise Receipts and Shipments.** These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

**Internal Receipts and Shipments.** These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems; marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important areas thereof; and movements between offshore installations and inland waterways.

**Local.** Movements of freight within the confines of a port whether the port has only one or several areas or channels, except car-ferry and general ferry are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

**Intraterritory receipts and shipments.** These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered a single unit.

##### Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

**Upbound and Downbound.** These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segment of one of these channels as described in the "Section included" for each channel.

**Inbound and Outbound.** Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

**Through Traffic.** Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

##### General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.



## COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

NOTE: The commodity descriptions used in the statistical tables in this publication are abbreviated to conserve printing space of the following commodities:

Code No.	Item Name	Code No.	Item Name
Group 01-Farm Products		Group 20-Food and Kindred Products	
0101	Cotton, raw	2034	Vegetables and preparations, canned and otherwise prepared and preserved
0102	Barley and rye	2039	Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved
0103	Corn	2041	Wheat flour and semolina
0104	Oats	2042	Animal feeds
0105	Rice	2049	Grain mill products, not elsewhere classified
0106	Sorghum Grains	2061	Sugar
0107	Wheat	2062	Molasses
0111	Soybeans	2081	Alcoholic beverages
0112	Flaxseed	2091	Vegetable oils, all grades; margarine and shortening
0119	Oilseeds, not elsewhere classified	2092	Animal oils and fats, not elsewhere classified, including marine
0121	Tobacco, leaf	2094	Groceries
0122	Hay and Fodder	2095	Ice
0129	Field crops, not elsewhere classified	2099	Miscellaneous food products
0131	Fresh fruits		
0132	Bananas and plantains	Group 21-Tobacco Products	
0133	Coffee, green and roasted (including instant)	2111	Tobacco manufactures
0134	Cocoa beans	Group 22-Basic Textiles	
0141	Fresh and frozen vegetables	2211	Basic textile products, except textile fibers
0151	Live animals (livestock) except zoo animals, cats, dogs, etc.	2212	Textile fibers not elsewhere classified
0161	Animals and animal products, not elsewhere classified	Group 23-Apparel and Other Finished Textile Products Including Knit	
0191	Miscellaneous farm products	2311	Apparel and other finished textile products, including knit
Group 08-Forest Products		Group 24-Lumber and Wood Products Except Furniture	
0841	Crude rubber and allied gums	2411	Logs
0861	Forest products, not elsewhere classified	2412	Kilned logs
Group 09-Fresh Fish and Other Marine Products		2413	Fuel wood, charcoal, and wastes
0911	Fresh fish, except shellfish	2414	Timber, posts, poles, piling, and other wood in the rough
0912	Shellfish, except prepared or preserved	2415	Pulpwood, log
0913	Menhaden	2416	Wood chips, staves, moldings, and excelsior
0931	Marine shells, unmanufactured	2421	Lumber
Group 10-Metallic Ores		2431	Veneer, plywood, and other worked wood
1011	Iron ore and concentrates	2491	Wood manufactures, not elsewhere classified
1021	Copper ore and concentrates	Group 25-Furniture and Fixtures	
1051	Bauxite and other aluminum ores and concentrates	2511	Furniture and fixtures
1061	Manganese ores and concentrates	Group 26-Pulp, Paper and Allied Products	
1091	Nonferrous metal ores and concentrates, not elsewhere classified	2611	Pulp
Group 11-Coal		2621	Standard newsprint paper
1121	Coal and lignite	2631	Paper and paperboard
Group 13-Crude Petroleum		2691	Pulp, paper and paperboard products, not elsewhere classified
1311	Crude petroleum	Group 27-Printed Matter	
Group 14-Nonmetallic Minerals, Except Fuels		2711	Printed matter
1411	Limestone flux and calcareous stone	Group 28-Chemicals and Allied Products	
1412	Building stone, unworked	2810	Sodium hydroxide (caustic soda)
1442	Sand, gravel and crushed rock	2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene
1451	Clay, ceramic and refractory materials	2812	Dyes, organic pigment, dyeing and tanning materials
1471	Phosphate rock	2813	Alcohols
1479	Natural fertilizer materials, not elsewhere classified	2816	Radioactive and associated materials, including wastes
1491	Salt	2817	Benzene and toluene, crude and commercially pure
1492	Sulphur, dry	2818	Sulphuric acid
1493	Sulphur, liquid	2819	Basic chemicals and basic chemical products, not elsewhere classified
1494	Gypsum, crude and plasters	2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates
1499	Nonmetallic minerals, except fuels, not elsewhere classified	2822	Synthetic rubber
Group 19-Ordnance and Accessories		2823	Synthetic (man-made) fiber
1911	Ordnance and accessories	2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)
Group 20-Food and Kindred Products		2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations
2011	Meat, fresh, chilled, or frozen	2851	Paints, varnishes, lacquers, enamels, and allied products
2012	Meat and meat products prepared or preserved, including canned meat products	2861	Gum and wood chemicals
2014	Tallow, animal fats and oils	2871	Nitrogenous chemical fertilizers, except mixtures
2015	Animal by-products, not elsewhere classified	2872	Potassic chemical fertilizers, except mixtures
2021	Dairy products, except dried milk and cream	2873	Phosphatic chemical fertilizers, except mixtures
2022	Dried milk and cream		
2031	Fish and fish products, including shellfish, prepared or preserved		

Code No.	Item Name	Code No.	Item Name
	Group 28-Chemicals and Allied Products		Group 34-Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment
2870	Insecticides, fungicides, pesticides, and disinfectants	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment
2879	Fertilizers and fertilizer materials, not elsewhere classified		Group 35-Machinery, Except Electrical
2891	Miscellaneous chemical products	3511	Machinery, except electrical
	Group 29-Petroleum and Coal Products		Group 36-Electrical Machinery, Equipment and Supplies
2911	Gasoline, including natural gasoline	3611	Electrical machinery equipment and supplies
2912	Jet fuel		Group 37-Transportation Equipment
2913	Kerosene	3711	Motor vehicles, parts and equipment
2914	Distillate fuel oil	3721	Aircraft and parts
2915	Residual fuel oil	3731	Ships and boats
2916	Lubricating oils and greases	3791	Miscellaneous transportation equipment
2917	Naphtha, mineral spirits, solvents, not elsewhere classified		Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks
2918	Asphalt, tar, and pitches	3811	Instruments, photographic and optical goods, watches and clocks
2920	Coke, including petroleum coke		Group 39-Miscellaneous Products of Manufacturing
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids	3911	Miscellaneous products of manufacturing
2951	Asphalt building materials		Group 40-Waste and Scrap Materials
2991	Petroleum and coal products, not elsewhere classified	4011	Iron and steel scrap
	Group 30-Rubber and Miscellaneous Plastic Products	4012	Nonferrous metal scrap
3011	Rubber and miscellaneous plastic products	4022	Textile waste, scrap, and sweepings
	Group 31-Leather and Leather Products	4024	Paper waste and scrap
3111	Leather and leather products	4029	Waste and scrap, not elsewhere classified
	Group 32-Stone, Clay, Glass and Concrete Products		Group 41-Special Items
3211	Glass and glass products	4111	Water
3241	Building cement	4112	Miscellaneous shipments not identifiable by commodity
3251	Structural clay products, including refractories	4113	LCL freight
3271	Lime	4118	Materials used in waterway improvement, Government materials
3281	Cut stone and stone products	4119	Empty containers
3291	Miscellaneous nonmetallic mineral products	9999*	Department of Defense controlled cargo and special category items
	Group 33-Primary Metal Products		
3311	Pig iron		
3312	Slag		
3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents		
3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron		
3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling		
3316	Iron and steel plates and sheets		
3317	Iron and steel pipe and tube		
3318	Ferrosilloys		
3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
3321	Nonferrous metals primary smelter product, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
3322	Copper and copper alloys, whether or not refined, unworked		
3323	Lead and zinc including alloys, unworked		
3324	Aluminum and aluminum alloys, unworked		

\*Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCI) for which commodity detail is not furnished to the Corps of Engineers.



TABLE 2 - FREIGHT TONS OF UNITED STATES TRAFFIC CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1987  
(SHORT TONS)

AREA	AREA TOTALS	FOREIGN				DOMESTIC							
		OVERSEAS		CANADIAN		COASTWISE		LAKEWISE		INTERNAL		LOCAL	
		RECEIPTS AND SHIPMENTS	THROUGH	RECEIPTS AND SHIPMENTS	THROUGH	RECEIPTS AND SHIPMENTS	THROUGH	RECEIPTS AND SHIPMENTS	THROUGH	RECEIPTS AND SHIPMENTS	THROUGH	RECEIPTS AND SHIPMENTS	THROUGH
LAKE SUPERIOR	64,725,067	2,725,083	-----	9,279,886	-----	800	-----	52,064,548	-----	-----	-----	655,190	-----
ST. MARYS RIVER	61,074,568	135	2,725,083	574,913	7,632,936	-----	800	1,002,615	49,537,686	-----	-----	-----	-----
LAKE MICHIGAN INCLUDING THE PORT OF CHICAGO (CHICAGO HARBOR, NORTH BRANCH, SOUTH BRANCH, SANITARY SHIP CANAL, CALUMET-SAG CHANNEL, LAKE CALUMET AND CALUMET HARBOR AND RIVER)													
	70,448,459	2,712,996	-----	3,713,509	-----	8,539	-----	47,524,696	-----	13,703,781	-----	35,886	2,749,052
LAKE HURON	97,466,353	66,197	5,438,214	4,945,092	9,345,750	-----	800	23,818,300	53,817,714	-----	-----	35,886	-----
ST. CLAIR RIVER, INCLUDING CHANNELS IN LAKE ST. CLAIR	68,395,719	8,782	5,504,411	234,786	13,978,642	-----	800	9,604,621	39,027,791	-----	-----	35,886	-----
DETROIT RIVER	62,688,583	921,636	5,513,193	1,129,695	13,106,622	531	-----	12,005,328	29,681,104	-----	-----	35,886	93,588
LAKE ERIE, INCLUDING UPPER NIAGARA RIVER	89,162,085	2,662,865	6,434,829	27,989,498	4,312,214	-----	1,331	46,983,802	37,794	55,886	-----	743,766	-----
WELAND CANAL	22,789,180	-----	9,097,714	767,564	12,863,151	-----	1,331	-----	59,420	-----	-----	-----	-----
LAKE ONTARIO, INCLUDING LOWER NIAGARA RIVER	23,180,118	8,588	9,097,714	8,906,665	5,020,492	-----	1,331	20,294	39,126	85,908	-----	-----	-----
ST. LAWRENCE RIVER, BETWEEN INTERNATIONAL BOUNDARY LINE AND LAKE ONTARIO	14,231,808	12,640	9,106,302	133,036	4,940,704	-----	-----	39,126	-----	-----	-----	-----	-----
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	148,108,339	32,049,279	-----	13,876,092	-----	-----	-----	61,331	96,521,805	61,409,550	-----	9,250,282	-----

\*EXCLUDES TRAFFIC WHICH DID NOT TRAVERSE THE GREAT LAKES.

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY

COMPARATIVE STATEMENT OF TRAFFIC									
YEAR		SHORT TONS		YEAR		SHORT TONS			
1978		221,374,884		1983		138,217,894			
1979		224,984,471		1984		162,799,230			
1980		183,514,005		1985		148,147,122			
1981		148,147,122		1986		137,918,051			
1982		127,388,710		1987		148,108,339			

FREIGHT TRAFFIC, 1987									
(NET TRAFFIC IN TONS OF 2,000 POUNDS)									
COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		IMPORTS		EXPORTS		COASTWISE	LAKEWISE	INTERNAL	LOCAL
		CANADIAN	OVERSEAS	CANADIAN	OVERSEAS				
TOTAL, ALL COMMODITIES-----	148,108,339	10,040,313	3,835,779	26,766,116	5,283,163	1,331	96,521,805	1,409,550	4,250,282
0102 BARLEY AND RYE-----	488,854	7,232		276,577	205,045				
0103 CORN-----	1,785,783			818,109	941,112			26,562	
0104 OATS-----	44,561	44,561							
0105 RICE-----	1,592				1,592				
0107 WHEAT-----	2,440,023	46,489		147,851	1,652,389		589,021	4,273	
0111 SOYBEANS-----	1,091,235			119,962	926,923			44,350	
0119 OILSEEDS, NEC-----	137,855	3,839			134,016				
0129 FIELD CROPS, NEC-----	8,960	79	22		8,859				
0131 FRESH FRUITS-----	366						366		
0133 COFFEE-----	27	7	2						
0141 FRESH AND FROZEN VEGETABLES-----	40,960	22	10	79	39,922		927		
0161 ANIMALS AND PRODUCTS, NEC-----	166	12	146		8				
0191 MISCELLANEOUS FARM PRODUCTS-----	7	5					2		
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,447	1,280	167						
0861 FOREST PRODUCTS, NEC-----	116		116						
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,596				498		173		925
0912 SHELLFISH, EXCEPT PREPARED-----	10		10						
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319							7,319	
1011 IRON ORE AND CONCENTRATES-----	58,109,735	3,298,528	595,373	5,598,607	174,322		48,204,462	13,715	224,728
1751 ALUMINUM ORES, CONCENTRATES-----	39,589		39,589						
1061 MANGANESE ORES, CONCENTRATES-----	40,975						500	40,475	
1091 NONFERROUS ORES, CONCENTRATES-----	65,646	4,906	59,140					1,600	
1121 COAL AND LIGNITE-----	35,587,263	50,972		15,579,005	122,665		17,763,571		90,750
1311 CRUDE PETROLEUM-----	121,394	39,568	60,829				2,528		18,469
1411 LIMESTONE-----	24,333,142			3,061,094			21,234,747	37,301	
1412 BUILDING STONE, UNWORKED-----	267						267		
1442 SAND, GRAVEL, CRUSHED ROCK-----	4,788,053	1,253,776	567	369,288	10,002		572,342	4,019	2,578,059
1451 CLAY-----	153,722	2	10,543	109,506	6,658		25,602	1,411	
1491 SALT-----	1,613,091	1,375,002	22	181,473	56,594				
1494 GYPSUM, CRUDE AND PLASTERS-----	1,060,126						1,060,126		
1499 NONMETALLIC MINERALS, NEC-----	980,902	42,669	44,453		6,869		811,724	14,437	60,750
1911 ORDNANCE AND ACCESSORIES-----	23	2	21						
2011 MEAT, FRESH, CHILLED, FROZEN-----	1,849						1,849		
2012 MEAT AND PRODUCTS, NEC-----	40	20	20						
2014 TALLOW, ANIMAL FATS AND OILS-----	19,672				19,672				
2021 DAIRY PRODUCTS, NEC-----	1,077						1,077		
2022 DRIED MILK AND CREAM-----	32,614				32,614				
2031 FISH AND SHELLFISH, PREPARED-----	225		96		129				
2034 VEGETABLES AND PREP, NEC-----	1,123		166		60		897		
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,791	1,595	1,196						
2041 WHEAT FLOUR AND SEMOLINA-----	26,867				26,867				
2042 ANIMAL FEEDS-----	21,045	857	889		13,885		2,833	2,581	
2049 GRAIN MILL PRODUCTS, NEC-----	80,957	640	227		80,090				
2061 SUGAR-----	11,125	20	11,105						
2081 ALCOHOLIC BEVERAGES-----	2,766	301	2,465						
2091 VEGETABLE OILS, MARG, SHORT-----	32,126	969	258		30,899				
2094 GROCERIES-----	184						184		
2095 ICE-----	240		159				81		
2099 MISCELLANEOUS FOOD PRODUCTS-----	87,108	288	606		72,354		13,860		
2211 BASIC TEXTILE PRODUCTS-----	12,255	291	11,952		12				
2311 APPAREL-----	1,033		122		961				
2411 LOGS-----	155		59				48		48
2414 TIMBER, POSTS, POLES, PILING-----	2,680						2,680		
2421 LUMBER-----	33,651	15,433	31	60	2,719		15,408		
2431 VENEER, PLYWOOD, WORKED WOOD-----	4,155	716	29		43		3,367		
2491 WOOD MANUFACTURES, NEC-----	1,060	1	25				1,034		
2511 FURNITURE AND FIXTURES-----	814	39	749		18		8		
2611 PULP-----	198,163	65,767	85,853	151	22,921		23,471		
2621 STANDARD NEWSPRINT PAPER-----	169,411	148,126			6		21,279		
2631 PAPER AND PAPERBOARD-----	57,142	502	923		218		84,099	1,400	
2691 PULP AND PAPER PRODUCTS, NEC-----	430	97	242	9	82				
2711 PRINTED MATTER-----	138	17	104		17				
2810 SODIUM HYDROXIDE-----	9,973						9,973		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	120,070	49,629	1,459	6,313			23,069	4,600	35,000
2812 DYES, PIGMENT, TANNING MATS-----	3				3				
2813 ALCOHOLS-----	64,881	26,746	994	266	931				35,948
2817 BENZENE AND TOLUENE-----	141,616	23,558		32,733			38,254		47,071
2919 BASIC CHEMICALS AND PROD, NEC-----	311,120	51,414	10,499	250	3,709		79,998	19,578	143,672
2921 PLASTIC MATERIALS-----	3,832	2,224	1,208	21	379				
2922 SYNTHETIC RUBBER-----	117		117						
2931 DRUGS-----	567	191	311		65				
2941 SOAP-----	2,573	61	264		2,248				
2951 PAINTS-----	23,934	22,202	1,626	2	24				
2961 GUM AND WOOD CHEMICALS-----	5,105		20				5,085		
2971 NITROGENOUS CHEM FERTILIZERS-----	328,927	63,048	88,109				37,976	125,379	14,415
2972 POTASSIUM CHEM FERTILIZERS-----	1,243,744	1,243,724					20		
2973 PHOSPHATIC CHEM FERTILIZERS-----	9,720							9,720	
2976 INSECTICIDES, DISINFECTANTS-----	81		64		17				
2979 FERTILIZER AND MATERIALS, NEC-----	37,334	19,960	8,307					9,067	
2991 MISCELLANEOUS CHEMICAL PROD-----	4,434	1,667	2,361	57	349				

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY (CONTINUED)

FREIGHT TRAFFIC, 1987 (CONTINUED)									
(NET TRAFFIC IN TONS OF 2,000 POUNDS)									
COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		IMPORTS		EXPORTS		COASTWISE	LAKEWISE	INTERNAL	LOCAL
		CANADIAN	OVERSEAS	CANADIAN	OVERSEAS				
2911 GASOLINE-----	843,851	53,300	-----	64,136	-----	-----	646,813	16,800	60,802
2912 JET FUEL-----	45,772	5,850	-----	8,169	-----	-----	25,969	-----	5,784
2913 KEROSENE-----	39,049	1,283	-----	27,071	-----	-----	9,442	-----	1,253
2914 DISTILLATE FUEL OIL-----	745,452	159,402	-----	28,599	-----	-----	381,400	-----	175,971
2915 RESIDUAL FUEL OIL-----	991,398	151,468	5,271	-----	-----	-----	395,400	2,800	430,445
2916 LUBRICATING OILS AND GREASES-----	158,477	38	19	55,924	10	-----	47,377	51,121	3,988
2917 NAPHTHA, PETROLEUM SOLVENTS-----	67,900	20,551	-----	-----	-----	-----	1,400	4,200	41,749
2918 ASPHALT, TAR, AND BITUMENS-----	855,988	5,385	-----	9,673	-----	-----	639,731	30,984	170,115
2920 COKE, PETROLEUM COKE-----	997,191	231,100	-----	120,084	161,490	-----	285,875	97,698	100,444
2921 LIQUEFIED GASES-----	887	271	20	-----	-----	-----	596	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	34	-----	27	-----	7	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15,598	183	3,455	19	42	-----	11,899	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	297	4	278	-----	15	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	906	74	800	52	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	4,125,525	1,305,936	129,063	36,720	-----	-----	2,567,898	85,908	-----
3251 STRUCTURAL CLAY PRODUCTS-----	8,191	289	7,883	-----	19	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	1,225	70	1,146	9	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,335	24	223	3	44	-----	1,041	-----	-----
3311 PIG IRON-----	119,363	117,962	1,401	-----	-----	-----	-----	-----	-----
3312 SLAG-----	850,093	19,169	-----	-----	-----	-----	655,080	155,844	-----
3314 IRON AND STEEL PRIMARY FORMS-----	591,086	-----	568,017	-----	1,212	-----	53,877	167,980	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,908,363	33,109	1,816,050	-----	-----	-----	-----	59,204	-----
3316 IRON AND STEEL PLATES, SHEETS-----	133,065	97	13,769	-----	24,529	-----	90	98,677	-----
3317 IRON AND STEEL PIPE AND TUBE-----	34,443	97	34,308	16	-----	-----	27	-----	-----
3318 FERROALLOYS-----	126,855	24,827	73,577	-----	-----	-----	-----	28,281	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	48,389	312	5,631	8,842	62	-----	7,378	26,164	-----
3321 NONFERROUS METALS, NEC-----	3,929	626	3,044	246	13	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	233	-----	232	-----	1	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	144,059	226	143,833	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	23,135	194	22,862	-----	79	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	110,263	7,753	29,382	13	225	-----	72,550	340	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	51,357	1,008	40,940	35	6,952	531	887	1,004	-----
3611 ELECTRICAL MACH AND EQUIP-----	2,742	402	2,055	56	229	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	120,558	4,826	4,195	104,745	978	-----	5,814	-----	-----
3721 AIRCRAFT AND PARTS-----	24	20	4	-----	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	875	31	33	5	6	800	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	2,242	-----	420	-----	1,822	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	541	85	407	-----	189	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	801	24	732	-----	9	-----	36	-----	-----
4011 IRON AND STEEL SCRAP-----	706,014	-----	552	-----	485,302	-----	2	218,758	1,400
4012 NONFERROUS METAL SCRAP-----	81,892	-----	81,769	-----	123	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	1	-----	-----	-----	1	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	24	-----	-----	-----	-----	-----	24	-----	-----
4112 COMMODITIES, NEC-----	45,214	5,205	838	306	1,034	-----	37,831	-----	-----
4114 WATERWAY IMPROVEMENT MAT-----	38,153	-----	-----	-----	-----	-----	38,153	-----	-----
4119 EMPTY CONTAINERS-----	3	-----	-----	-----	-----	-----	3	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	4	-----	-----	-----	4	-----	-----	-----	-----

\* SALT INCLUDED IN NONMETALLIC MINERALS, NEC, TO AVOID DISCLOSURE OF INDIVIDUAL COMPANY OPERATIONS.

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**SECTION 1**

**FREIGHT TRAFFIC**

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# ST. PAUL, MN, DISTRICT (GREAT LAKES PORTION) LAKE SUPERIOR AREA

3

TWO HARBORS (AGATE BAY), MINN.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING DEPTH: 28 FEET EXCEPT FOR A 26 FOOT AREA ALONG THE EAST PROJECT LINE. PROJECT DEPTH: 28 FEET IN INNER BASIN AND 30 FEET NEAR ENTRANCE. NAVIGATION SEASON: MARCH 3 TO SHIPPED ALL WINTER LONG.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	10,517,263	1983-----	9,054,999
1979-----	11,932,715	1984-----	7,676,523
1980-----	11,157,604	1985-----	9,631,235
1981-----	11,332,237	1986-----	6,608,616
1982-----	5,059,948	1987-----	7,414,003

## FREIGHT TRAFFIC, 1987

### DOMESTIC (SHORT TONS)

COMMODITY	TOTAL	LAKEWISE SHIPMENTS	LOCAL
TOTAL-----	7,414,003	7,413,998	5
0911 FRESH FISH, EXCEPT SHELLFISH-----	5	-----	5
1011 IRON ORE AND CONCENTRATES-----	7,413,998	7,413,998	-----

DULUTH-SUPERIOR HARBOR, MINN. AND WIS.

SECTION INCLUDED: SUPERIOR BAY AND ITS TRIBUTARIES, ST. LOUIS BAY AND ST. LOUIS RIVER, AND ALLOUEZ BAY. CONTROLLING DEPTH: 32 FEET IN LAKE APPROACHES, DIMINISHING TO A MINIMUM OF 20 FEET IN CERTAIN INNER CHANNELS; THERE ARE NUMEROUS 1-2 FOOT SHOALS SCATTERED IN PORTIONS OF THE DULUTH AND SUPERIOR HARBOR BASINS. PROJECT DEPTH: 32 FEET IN LAKE APPROACHES; 27 FEET IN DULUTH AND SUPERIOR HARBOR BASINS, SUPERIOR FRONT CHANNEL, AND IN ORE-CHANNEL ROUTES THROUGH NORTH AND SOUTH CHANNELS TO D. V. & I. R. R. Y. ORE DOCKS; 27 FEET IN HOWARDS BAY AND ALLOUEZ BAY; 23 FEET IN REMAINING PORTION OF SOUTH, UPPER, AND MINNESOTA CHANNELS TO HALLET DOCK NO. 6; AND 20 FEET FROM THENCE TO NORTHERLY END OF CLOUGH ISLAND. NAVIGATION SEASON: APRIL 3 TO JANUARY 11.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	45,841,364	231,828	1983-----	30,094,178	176,004
1979-----	47,725,075	198,630	1984-----	37,255,941	212,732
1980-----	41,434,568	233,690	1985-----	28,816,841	196,000
1981-----	39,425,503	284,536	1986-----	29,155,300	215,154
1982-----	27,436,085	208,844	1987-----	36,462,867	-----

## FREIGHT TRAFFIC, 1987

### (SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		
		OVERSEAS		CANADIAN		LAKEWISE		LOCAL
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	36,462,867	66,480	2,526,394	436,555	1,774,857	1,527,930	29,476,637	654,014
0102 BARLEY AND RYE-----	488,854	-----	205,045	7,232	276,577	-----	-----	-----
0103 CORN-----	36,404	-----	36,404	-----	-----	-----	-----	-----
0104 OATS-----	31,027	-----	-----	31,027	-----	-----	-----	-----
0107 WHEAT-----	2,391,023	-----	1,614,606	43,514	143,882	-----	589,021	-----
0111 SOYBEANS-----	262,618	-----	272,928	-----	9,690	-----	-----	-----
0119 OILSEEDS, NEC-----	137,855	-----	134,016	3,839	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	8,938	-----	8,859	79	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	14,700	-----	14,700	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	157	-----	-----	-----	-----	-----	-----	157
1011 IRON ORE AND CONCENTRATES-----	20,078,884	-----	42,225	-----	1,207,180	-----	18,829,479	-----
1121 COAL AND LIGNITE-----	10,146,080	-----	-----	-----	28,350	63,799	10,053,931	-----
1411 LIMESTONE-----	1,248,219	-----	-----	-----	-----	1,248,219	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	611,100	-----	-----	-----	-----	-----	-----	611,100
1451 CLAY-----	109,911	-----	6,638	-----	103,273	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	149,779	-----	21	83,445	-----	66,313	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	20	20	-----	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	4,634	-----	4,634	-----	-----	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	757	-----	757	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	1,731	-----	1,028	703	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	5,670	-----	5,143	527	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	888	-----	-----	888	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	9,615	-----	9,615	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	3,768	3,768	-----	-----	-----	-----	-----	-----
2311 APPAREL-----	8	8	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	1,082	-----	775	307	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	4	4	-----	-----	-----	-----	-----	-----
2611 PULP-----	65,688	-----	-----	65,688	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	124,667	-----	-----	124,667	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	253	14	-----	239	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	50	50	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	28	21	7	-----	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	62	62	-----	-----	-----	-----	-----	-----
2841 SOAP-----	70	6	62	-----	-----	-----	-----	-----
2851 PAINTS-----	20	19	1	-----	-----	-----	-----	-----



# Waterborne Commerce of the United States, 1987

DULUTH-SUPERIOR HARBOR, MINN. AND WIS.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		LOCAL
		OVERSEAS		CANADIAN		LAKEWISE		
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
2891 MISCELLANEOUS CHEMICAL PROD-----	92	92	-----	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	8,775	-----	-----	-----	-----	-----	-----	8,775
2915 RESIDUAL FUEL OIL-----	46,038	-----	-----	7,850	-----	-----	4,206	33,982
2920 COKE, PETROLEUM COKE-----	158,664	-----	158,664	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	2	-----	2	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	257,819	35,770	-----	66,550	5,900	149,599	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET-----	26,268	26,268	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3	3	3	3	3	3	3	3
3411 FABRICATED METAL PRODUCTS-----	102	70	32	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	356	287	69	-----	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	6	1	5	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	5	-----	-----	-----	5	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	15	15	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	10,158	-----	10,158	-----	-----	-----	-----	-----

## ST. PAUL, MN, DISTRICT (GREAT LAKES PORTION)

5

## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT			
ASHLAND HARBOR, WIS.-----	1121 COAL AND LIGNITE-----	59,169	-----
	1411 LIMESTONE-----	4,209	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	360	-----
	TOTAL-----	63,738	-----
BAYFIELD HARBOR, WIS.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	172	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	15,543	-----
	2411 LOGS-----	48	-----
	2911 GASOLINE-----	43	-----
	2914 DISTILLATE FUEL OIL-----	96	-----
	2921 LIQUEFIED GASES-----	21	-----
	3241 BUILDING CEMENT-----	135	-----
	3316 IRON AND STEEL PLATES, SHEETS-----	90	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	28	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	5,814	-----
	3911 MISC MANUFACTURED PRODUCTS-----	36	-----
	4112 COMMODITIES, NEC-----	4,189	-----
	TOTAL-----	26,211	244,656
BEAVER BAY HARBOR, MINN.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	4	-----
CHIPPENAW HARBOR (ISLE ROYALE), MICH.-----	NO COMMERCE REPORTED		
CORNUCOPIA HARBOR, WIS.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	90	-----
GRAND MARAIS HARBOR, MINN.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	3	-----
KNIFE RIVER HARBOR, MINN.-----	NO COMMERCE REPORTED		
LA POINTE HARBOR, WIS.-----	2911 GASOLINE-----	43	-----
	2914 DISTILLATE FUEL OIL-----	96	-----
	2921 LIQUEFIED GASES-----	21	-----
	4112 COMMODITIES, NEC-----	4,189	-----
	TOTAL-----	4,349	227,912
LUTSEN HARBOR, MINN.-----	NO COMMERCE REPORTED		
PORT WING HARBOR, WIS.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	100	-----
WARROAD HARBOR, MINN.-----	NO COMMERCE REPORTED		
NONPROJECT			
TACONITE HARBOR, MINN.-----	1011 IRON ORE AND CONCENTRATES-----	7,479,151	-----
	1411 LIMESTONE-----	75,858	-----
	TOTAL-----	7,555,009	-----

# Waterborne Commerce of the United States, 1987

## CHICAGO, IL, DISTRICT

HAUKEGAN HARBOR, ILL.

SECTION INCLUDED: ARTIFICIAL HARBOR BASIN OF ABOUT 13.5 ACRES AND ENTRANCE CHANNEL FROM LAKE MICHIGAN APPROXIMATELY 2,000 FEET IN LENGTH. PROJECT DEPTH: 22 FEET IN ENTRANCE CHANNEL; 18 FEET BETWEEN PIERS AND INNER BASIN; 8 FEET IN ANCHORAGE AREA OF APPROXIMATELY 6 ACRES.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	478,733	1983-----	192,183
1979-----	544,281	1984-----	343,149
1980-----	286,363	1985-----	404,619
1981-----	211,049	1986-----	464,213
1982-----	114,033	1987-----	457,730

### FREIGHT TRAFFIC, 1987

#### DOMESTIC

(SHORT TONS)

COMMODITY	LAKEWISE RECEIPTS
TOTAL-----	457,730
1499 GYPSUM, CRUDE AND PLASTERS-----	227,900
3241 BUILDING CEMENT-----	229,830

CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.  
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: MAIN RIVER FROM RUSH STREET TO JUNCTION OF NORTH AND SOUTH BRANCH; NORTH BRANCH TO NORTH AVENUE. PROJECT DEPTH: 21 FEET FROM RUSH STREET IN THE MAIN RIVER TO NORTH AVENUE IN THE NORTH BRANCH, INCLUDING THE NORTH BRANCH CANAL AND THE NORTH TURNING BRANCH BASIN.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	2,745,261	1983-----	1,853,720
1979-----	2,798,123	1984-----	1,901,778
1980-----	2,625,907	1985-----	1,565,893
1981-----	2,290,800	1986-----	2,677,886
1982-----	2,568,479	1987-----	1,813,806

### FREIGHT TRAFFIC, 1987

#### FOREIGN

(SHORT TONS)

COMMODITY	CANADIAN IMPORTS
TOTAL-----	1,348
2819 BASIC CHEMICALS AND PROD, NEC-----	1,348
TON-MILES, FOREIGN, 4,044.	

#### DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE		INTERNAL		LOCAL	THROUGH	
		RECEIPTS	THROUGH UPBOUND DOWNBOUND	RECEIPTS	SHIPMENTS		UPBOUND	DOWNBOUND
TOTAL-----	1,812,458	28,774	86,067 162,500	358,262	54,571	1,098,950	2,172	21,162
1121 COAL AND LIGNITE-----	25,368			23,918			1,450	
1311 CRUDE PETROLEUM-----	2,528		2,528					
1411 LIMESTONE-----	40,096	27,054						13,042
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,065,150			6,750		1,058,400		
1499 NONMETALLIC MINERALS, NEC-----	144,124	1,720		63,437		39,150		
2014 TALLOW, ANIMAL FATS AND OILS-----	35,639				35,639			
2042 ANIMAL FEEDS-----	1,323							1,323
2813 ALCOHOLS-----	1,395			1,395				
2819 BASIC CHEMICALS AND PROD, NEC-----	6,079		4,500	1,579				
2871 NITROGENOUS CHEM FERTILIZERS-----	14,280		9,479 2,010					2,791
2911 GASOLINE-----	15,136		13,870 1,266					
2912 JET FUEL-----	16,248		9,136 7,112					
2914 DISTILLATE FUEL OIL-----	27,053		10,118 16,213				722	
2915 RESIDUAL FUEL OIL-----	56,528		22,995 29,527					4,006
2916 LUBRICATING OILS AND GREASES-----	42,000				42,000			
2917 NAPHTHA, PETROLEUM SOLVENTS-----	1,400		1,400					
2918 ASPHALT, TAR, AND PITCHES-----	36,596		12,041 24,555					
3241 BUILDING CEMENT-----	138,646			138,646				



# Waterborne Commerce of the United States, 1987

CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF  
CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION INCLUDED: CHICAGO SANITARY AND SHIP CANAL. DAMEN AVENUE, CHICAGO TO LOCKPORT, ILL. PROJECT DEPTH: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	19,942,488	1983-----	18,748,800
1979-----	20,013,114	1984-----	15,293,449
1980-----	22,687,576	1985-----	15,904,359
1981-----	21,706,164	1986-----	19,524,046
1982-----	19,063,704	1987-----	16,598,820

## FREIGHT TRAFFIC, 1987

### COASTWISE AND LAKEWISE

(SHORT TONS)

COMMODITY	TOTAL	DOMESTIC			
		COASTWISE		LAKEWISE	
		SHIPMENTS	RECEIPTS	SHIPMENTS	THROUGH DOWNBOUND
TOTAL-----	283,860	8,539	169,292	97,651	8,378
1061 MANGANESE ORES, CONCENTRATES-----	500	-----	-----	500	-----
1311 CRUDE PETROLEUM-----	2,528	-----	-----	2,528	-----
1499 NONMETALLIC MINERALS, NEC-----	39,817	-----	39,817	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	4,500	-----	-----	4,500	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	11,489	-----	2,010	9,479	-----
2911 GASOLINE-----	19,404	-----	-----	18,138	1,266
2912 JET FUEL-----	18,583	-----	-----	11,471	7,112
2913 KEROSENE-----	1,242	-----	1,242	-----	-----
2914 DISTILLATE FUEL OIL-----	28,667	-----	16,213	12,454	-----
2915 RESIDUAL FUEL OIL-----	67,941	8,539	34,262	25,140	-----
2916 LUBRICATING OILS AND GREASES-----	42,000	-----	42,000	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	1,400	-----	-----	1,400	-----
2918 ASPHALT, TAR, AND PITCHES-----	45,789	-----	33,748	12,041	-----
TON-MILES, COASTWISE AND LAKEWISE,	3,654,264				

## INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPBOUND	DOWNBOUND
TOTAL-----	16,314,960	5,850,264	1,773,490	2,566,285	4,009,118	2,115,803
0103 CORN-----	441,114	-----	223,534	-----	1,417	216,163
0104 OATS-----	2,937	-----	-----	-----	-----	2,937
0107 WHEAT-----	65,664	-----	11,017	-----	-----	54,647
0111 SOYBEANS-----	192,117	-----	108,534	-----	-----	83,583
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319	-----	-----	-----	7,319	-----
1011 IRON ORE AND CONCENTRATES-----	16,437	-----	-----	-----	16,437	-----
1051 ALUMINUM ORES, CONCENTRATES-----	2,971	1,372	-----	-----	1,599	-----
1061 MANGANESE ORES, CONCENTRATES-----	63,055	2,465	-----	-----	60,590	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	17,034	7,124	-----	-----	8,310	1,600
1121 COAL AND LIGNITE-----	3,645,761	1,956,827	-----	90,750	1,598,184	-----
1311 CRUDE PETROLEUM-----	183,672	-----	4,616	15,941	-----	163,115
1411 LIMESTONE-----	40,326	3,025	-----	-----	1,415	35,886
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,991,184	1,198,477	314,550	1,449,900	28,257	-----
1451 CLAY-----	1,411	-----	-----	-----	1,411	-----
1499 NONMETALLIC MINERALS, NEC-----	379,447	126,075	-----	60,750	192,622	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	36,867	-----	1,228	-----	-----	35,639
2042 ANIMAL FEEDS-----	28,690	1,576	10,170	-----	2,764	14,180
2049 GRAIN MILL PRODUCTS, NEC-----	21,790	-----	4,417	-----	2,757	14,616
2061 SUGAR-----	53,412	41,142	1,248	-----	11,022	-----
2062 MOLASSES-----	76,496	2,772	-----	-----	73,724	-----
2091 VEGETABLE OILS, MARG, SHORT-----	2,873	-----	1,400	-----	1,473	-----
2421 LUMBER-----	9,784	8,186	-----	-----	1,598	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,315	758	-----	-----	2,557	-----
2611 PULP-----	7,649	7,649	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	10,434	5,412	-----	-----	5,022	-----
2810 SODIUM HYDROXIDE-----	518,128	342,093	6,459	-----	169,576	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	161,586	11,752	96,734	35,000	-----	18,100
2813 ALCOHOLS-----	396,553	208,846	14,889	35,944	135,527	1,347
2817 BENZENE AND TOLUENE-----	104,097	12,904	23,223	47,071	-----	20,899
2818 SULPHURIC ACID-----	1,313	-----	-----	-----	1,313	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	423,910	202,695	12,750	27,517	147,880	33,068
2871 NITROGENOUS CHEM FERTILIZERS-----	186,969	22,882	2,541	11,624	127,697	22,225
2872 POTASSIC CHEM FERTILIZERS-----	7,337	-----	-----	-----	7,337	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	10,994	-----	-----	-----	10,994	-----
2879 FERTILIZER AND MATERIALS, NEC-----	10,534	-----	-----	-----	10,534	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	59,650	8,760	-----	-----	27,829	23,061
2911 GASOLINE-----	163,445	24,335	32,336	55,988	20,555	30,231
2912 JET FUEL-----	2,316	-----	-----	2,316	-----	-----
2913 KEROSENE-----	40,317	34,049	-----	1,253	5,015	-----
2914 DISTILLATE FUEL OIL-----	363,016	111,375	85,518	145,793	11,923	8,407
2915 RESIDUAL FUEL OIL-----	901,050	213,208	332,491	273,539	17,496	64,316
2916 LUBRICATING OILS AND GREASES-----	334,617	273,310	6,198	3,988	-----	51,121
2917 NAPHTHA, PETROLEUM SOLVENTS-----	163,826	69,206	36,775	40,349	6,583	10,913
2918 ASPHALT, TAR, AND PITCHES-----	450,179	74,762	42,264	167,618	-----	165,535
2920 COKE, PETROLEUM COKE-----	797,750	86,647	323,159	100,944	169,916	117,084
3201 BUILDING CEMENT-----	763,001	605,186	-----	-----	157,815	-----
3271 LIME-----	10,038	-----	-----	-----	8,602	1,436

## CHICAGO, IL, DISTRICT

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CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF  
CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPBOUND	DOWNBOUND
3311 PIG IRON-----	33,736	2,461	-----	-----	28,243	3,032
3312 SLAG-----	199,872	-----	-----	-----	94,971	104,901
3314 IRON AND STEEL PRIMARY FORMS-----	304,405	34,785	-----	-----	157,658	111,962
3315 IRON, STEEL SHAPES, EXC SHEET-----	467,978	109,175	1,497	-----	272,172	85,134
3316 IRON AND STEEL PLATES, SHEETS-----	155,651	2,511	-----	-----	35,139	118,001
3317 IRON AND STEEL PIPE AND TUBE-----	24,589	12,847	1,040	-----	10,702	-----
3318 FERROALLOYS-----	171,402	4,221	-----	-----	159,896	7,285
3319 IRON AND STEEL PRODUCTS, NEC-----	72,306	12,832	-----	-----	14,816	44,658
3323 LEAD AND ZINC, UNWORKED-----	8,312	-----	-----	-----	8,312	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	7,444	-----	-----	-----	7,444	-----
3411 FABRICATED METAL PRODUCTS-----	2,752	2,412	-----	-----	300	40
3511 MACHINERY, EXCEPT ELECTRICAL-----	7,540	2,539	1,400	-----	2,401	1,200
3711 MOTOR VEHICLES, PARTS, EQUIP-----	993	-----	-----	-----	993	-----
3731 SHIPS AND BOATS-----	214	-----	-----	-----	130	84
4011 IRON AND STEEL SCRAP-----	669,990	1,611	58,913	-----	160,069	449,397
4029 WASTE AND SCRAP, NEC-----	13,239	-----	13,239	-----	-----	-----
4112 COMMODITIES, NEC-----	802	-----	-----	-----	802	-----
4118 WATERWAY IMPROVEMENT MAT-----	1,350	-----	1,350	-----	-----	-----
TON-MILES, INTERNAL,	223,605,651.	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC,	16,598,820.	-----	-----	-----	-----	-----
TON-MILES, ALL TRAFFIC,	227,459,915.	-----	-----	-----	-----	-----

CALUMET-SAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO,  
ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)SECTION INCLUDED: CALUMET-SAG CHANNEL FROM ITS JUNCTION WITH CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND, LITTLE CALUMET AND CALUMET  
RIVERS TO TURNING BASIN NO. 5. PROJECT DEPTH: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	6,034,231	1,200	1983-----	6,445,250	600
1979-----	5,830,427	1,290	1984-----	5,577,763	650
1980-----	6,042,097	1,300	1985-----	5,828,780	40,358
1981-----	6,841,966	1,300	1986-----	7,503,147	-----
1982-----	5,441,831	392	1987-----	6,127,480	-----

FREIGHT TRAFFIC, 1987

LAKEWISE

(SHORT TONS)

COMMODITY	TOTAL	DOMESTIC LAKEWISE			
		RECEIPTS	SHIPMENTS	UPBOUND	DOWNBOUND
TOTAL-----	38,040	8,378	2,908	11,584	15,170
1061 MANGANESE ORES, CONCENTRATES-----	500	-----	-----	500	-----
2911 GASOLINE-----	5,534	1,268	-----	4,268	-----
2912 JET FUEL-----	9,447	7,112	-----	2,335	-----
2913 KEROSENE-----	1,242	-----	-----	-----	1,242
2914 DISTILLATE FUEL OIL-----	2,336	-----	-----	2,336	-----
2915 RESIDUAL FUEL OIL-----	9,788	-----	2,908	2,145	4,735
2918 ASPHALT, TAR, AND PITCHES-----	9,193	-----	-----	-----	9,193
TON-MILES, LAKEWISE,	811,446.	-----	-----	-----	-----

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPBOUND	DOWNBOUND
TOTAL-----	6,089,440	418,573	367,414	436,204	3,006,610	1,860,639
0103 CORN-----	217,580	-----	-----	-----	1,417	216,163
0104 OATS-----	2,937	-----	-----	-----	-----	2,937
0107 WHEAT-----	54,647	-----	-----	-----	-----	54,647
0111 SOYBEANS-----	83,583	-----	-----	-----	-----	83,583
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319	-----	-----	-----	7,319	-----
1011 IRON ORE AND CONCENTRATES-----	16,437	-----	-----	-----	16,437	-----
1051 ALUMINUM ORES, CONCENTRATES-----	1,599	-----	-----	-----	1,599	-----
1061 MANGANESE ORES, CONCENTRATES-----	60,590	-----	-----	-----	60,590	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	9,910	-----	-----	-----	8,310	1,600
1121 COAL AND LIGNITE-----	1,360,293	1,600	-----	-----	1,207,943	90,750
1311 CRUDE PETROLEUM-----	163,115	-----	163,115	-----	-----	-----
1411 LIMESTONE-----	24,259	-----	-----	-----	1,415	22,844
1442 SAND, GRAVEL, CRUSHED ROCK-----	11,207	1,366	-----	1,350	8,571	-----
1451 CLAY-----	1,411	-----	-----	-----	1,411	-----

## Waterborne Commerce of the United States, 1987

CALUMET-BAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO,  
ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPBOUND	DOWNBOUND
1499 NONMETALLIC MINERALS, NEC-----	108,744	4,570	-----	-----	104,174	-----
2042 ANIMAL FEEDS-----	15,621	2,764	-----	-----	-----	12,857
2049 GRAIN MILL PRODUCTS, NEC-----	17,373	-----	-----	-----	2,757	14,616
2061 SUGAR-----	11,022	-----	-----	-----	11,022	-----
2062 MOLASSES-----	73,724	60,432	-----	-----	13,292	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,473	1,473	-----	-----	-----	-----
2421 LUMBER-----	1,598	-----	-----	-----	1,598	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	2,557	-----	-----	-----	2,557	-----
2631 PAPER AND PAPERBOARD-----	5,022	-----	-----	-----	5,022	-----
2810 SODIUM HYDROXIDE-----	169,576	67,853	-----	-----	101,723	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	50,300	-----	-----	-----	-----	50,300
2813 ALCOHOLS-----	161,868	126,338	1,347	9,083	9,061	16,039
2817 BENZENE AND TOLUENE-----	63,770	-----	-----	15,115	2,556	46,099
2818 SULPHURIC ACID-----	1,313	-----	-----	-----	1,313	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	323,641	80,586	-----	116,755	66,949	59,351
2871 NITROGENOUS CHEM FERTILIZERS-----	157,057	-----	-----	-----	127,697	29,360
2872 POTASSIC CHEM FERTILIZERS-----	7,337	-----	-----	-----	7,337	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	10,994	-----	-----	-----	10,994	-----
2879 FERTILIZER AND MATERIALS, NEC-----	10,534	1,467	-----	-----	9,067	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	50,890	-----	-----	-----	27,829	23,061
2911 GASOLINE-----	79,232	17,692	13,431	28,446	2,863	16,800
2913 KEROSENE-----	5,015	-----	-----	-----	5,015	-----
2914 DISTILLATE FUEL OIL-----	66,008	11,201	-----	40,945	93	13,769
2915 RESIDUAL FUEL OIL-----	180,197	7,164	57,970	73,251	13,132	26,680
2916 LUBRICATING OILS AND GREASES-----	52,521	-----	-----	-----	-----	52,521
2917 NAPHTHA, PETROLEUM SOLVENTS-----	32,179	-----	-----	-----	6,583	25,596
2918 ASPHALT, TAR, AND PITCHES-----	322,394	-----	131,551	151,259	1,400	38,184
2920 COKE, PETROLEUM COKE-----	389,433	8,878	-----	-----	263,471	117,084
3241 BUILDING CEMENT-----	19,169	-----	-----	-----	19,169	-----
3271 LIME-----	10,038	-----	-----	-----	8,602	1,436
3311 PIG IRON-----	31,275	4,509	-----	-----	23,734	3,032
3312 SLAG-----	149,872	-----	-----	-----	94,971	104,901
3314 IRON AND STEEL PRIMARY FORMS-----	254,460	-----	-----	-----	142,498	111,962
3315 IRON, STEEL SHAPES, EXC SHEET-----	270,673	14,040	-----	-----	171,499	85,134
3316 IRON AND STEEL PLATES, SHEETS-----	144,812	1,045	-----	-----	25,766	118,001
3317 IRON AND STEEL PIPE AND TUBE-----	10,204	-----	-----	-----	10,204	-----
3318 FERROALLOYS-----	167,181	4,200	-----	-----	155,696	7,285
3319 IRON AND STEEL PRODUCTS, NEC-----	49,887	-----	-----	-----	6,565	43,322
3323 LEAD AND ZINC, UNWORKED-----	8,312	-----	-----	-----	8,312	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	6,057	-----	-----	-----	6,057	-----
3411 FABRICATED METAL PRODUCTS-----	340	-----	-----	-----	300	40
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,314	-----	-----	-----	1,114	1,200
3731 SHIPS AND BOATS-----	214	-----	-----	-----	130	84
4011 IRON AND STEEL SCRAP-----	527,470	1,395	-----	-----	158,674	367,401
4112 COMMODITIES, NEC-----	802	-----	-----	-----	802	-----

TON-MILES, INTERNAL, 134,175,602.

TONS, ALL TRAFFIC, 6,127,480.

TON-MILES, ALL TRAFFIC, 134,987,048.

LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: ENTRANCE CHANNEL FROM THE CALUMET RIVER TO A HARBOR AREA AT SOUTH END OF LAKE WITH A CHANNEL EXTENDING NORTHWARD FOR A DISTANCE OF 3,000 FEET AND A WIDTH OF 1,000 FEET. PROJECT DEPTH: 27 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	1,814,313	-----	1983-----	1,106,398	-----
1979-----	2,312,113	-----	1984-----	1,885,876	-----
1980-----	1,314,538	-----	1985-----	1,419,181	-----
1981-----	1,163,849	-----	1986-----	1,454,483	-----
1982-----	942,514	-----	1987-----	1,267,241	-----

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		OVERSEAS	CANADIAN	LAKEWISE		INTERNAL		
		IMPORTS	IMPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	1,267,241	51,462	81,691	366,046	63,503	387,939	156,168	160,432
0103 CORN-----	69,730	-----	-----	-----	-----	-----	69,730	-----
0107 WHEAT-----	3,107	-----	-----	-----	-----	-----	3,107	-----
0111 SOYBEANS-----	9,264	-----	-----	-----	-----	-----	9,264	-----
1061 MANGANESE ORES, CONCENTRATES-----	2,920	-----	-----	-----	-----	2,920	-----	-----
1411 LIMESTONE-----	22,500	-----	-----	22,500	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	52,099	-----	-----	36,787	-----	15,312	-----	-----
2042 ANIMAL FEEDS-----	1,407	-----	-----	-----	-----	-----	1,407	-----
2049 GRAIN MILL PRODUCTS, NEC-----	2,897	-----	-----	-----	-----	-----	2,897	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	5	5	-----	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	1	1	-----	-----	-----	-----	-----	-----
2711 PRINTED MATTER-----	7	7	-----	-----	-----	-----	-----	-----

## CHICAGO, IL, DISTRICT

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LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		OVERSEAS	CANADIAN	LAKEWISE		INTERNAL		
		IMPORTS	IMPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2810 SODIUM HYDROXIDE-----	101,723	-----	-----	-----	-----	101,723	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	23,061	1,094	14,967	-----	-----	-----	-----	7,000
2813 ALCOHOLS-----	37,823	-----	20,642	-----	-----	2,542	-----	14,639
2817 BENZENE AND TOLUENE-----	2,757	-----	2,757	-----	-----	-----	-----	-----
2818 SULPHURIC ACID-----	1,313	-----	-----	-----	-----	1,313	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	274,838	4,161	21,560	-----	50,075	45,325	19,068	134,649
2872 POTASSIC CHEM FERTILIZERS-----	2,968	-----	-----	-----	-----	2,968	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	25,267	-----	-----	-----	-----	25,267	-----	-----
2913 KEROSENE-----	1,283	-----	1,283	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	93	-----	-----	-----	-----	-----	-----	93
2915 RESIDUAL FUEL OIL-----	40,771	-----	9,414	-----	13,428	10,332	3,546	4,051
2917 NAPHTHA, PETROLEUM SOLVENTS-----	16,846	-----	8,863	-----	-----	6,583	1,400	-----
3201 BUILDING CEMENT-----	244,668	-----	-----	231,759	-----	12,909	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	838	838	-----	-----	-----	-----	-----	-----
3271 LIME-----	8,602	-----	-----	-----	-----	8,602	-----	-----
3311 PIG IRON-----	3,272	-----	-----	-----	-----	3,272	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	31,534	-----	-----	2,747	-----	14,989	13,798	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	157,362	44,318	-----	-----	-----	111,971	1,073	-----
3316 IRON AND STEEL PLATES, SHEETS-----	3,889	-----	-----	-----	-----	3,889	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	3,343	776	-----	2,567	-----	2,567	-----	-----
3318 FERROALLOYS-----	9,826	-----	-----	-----	-----	8,376	1,450	-----
3411 FABRICATED METAL PRODUCTS-----	72,318	65	-----	72,253	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	11	11	-----	-----	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	116	116	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	6	6	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	36,507	-----	-----	-----	-----	7,079	29,428	-----
4112 COMMODITIES, NEC-----	2,269	64	2,205	-----	-----	-----	-----	-----
TOTAL TON-MILES, 1,180,798.								

CALUMET HARBOR AND RIVER, ILL. AND IND.  
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: CALUMET HARBOR AND RIVER TO TURNING BASIN NO. 5. PROJECT DEPTH: 29 FEET IN APPROACH CHANNEL, 28 FEET IN OUTER HARBOR ANCHORAGE AREA, 27 FEET IN RIVER ENTRANCE CHANNEL TO E. J. &amp; E. R. R. BRIDGE, AND 27 FEET IN RIVER TO AND INCLUDING BASIN NO. 5.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	25,242,282	1983-----	12,454,073
1979-----	24,014,852	1984-----	13,740,110
1980-----	16,415,499	1985-----	12,799,728
1981-----	17,631,420	1986-----	11,481,257
1982-----	12,778,098	1987-----	9,523,714

## FREIGHT TRAFFIC, 1987

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		THROUGH WESTBOUND	CANADIAN		THROUGH WESTBOUND
		IMPORTS	EXPORTS		IMPORTS	EXPORTS	
TOTAL-----	2,552,446	1,057,760	113,586	51,462	1,190,184	57,763	81,691
0107 WHEAT-----	11,795	-----	8,820	-----	2,975	-----	-----
0111 SOYBEANS-----	99,587	-----	99,587	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	24	16	8	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	40	40	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	52	52	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	10	10	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	727,277	107,627	-----	-----	619,650	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	6,714	1,808	-----	-----	4,906	-----	-----
1121 COAL AND LIGNITE-----	30,972	-----	-----	-----	30,972	-----	-----
1311 CRUDE PETROLEUM-----	23,385	-----	-----	-----	23,385	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	368	368	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	138,888	-----	-----	-----	138,888	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	46	46	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	66	66	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	38	38	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	455	-----	455	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	119	54	65	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	309	273	-----	-----	36	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	193	177	16	-----	-----	-----	-----
2095 ICE-----	20	20	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	3,147	379	2,763	5	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	188	148	2	-----	38	-----	-----
2311 APPAREL-----	106	106	-----	-----	-----	-----	-----
2421 LUMBER-----	2,844	5	-----	-----	2,839	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	9	9	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	24	23	-----	1	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	170	170	-----	-----	-----	-----	-----
2611 PULP-----	7	-----	7	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,179	-----	6	-----	1,173	-----	-----
2631 PAPER AND PAPERBOARD-----	253	82	53	-----	118	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	182	161	1	-----	-----	-----	-----



## Waterborne Commerce of the United States, 1987

CALUMET HARBOR AND RIVER, ILL. AND IND.  
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

## FOREIGN--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
				THROUGH WESTBOUND	THROUGH WESTBOUND
2711 PRINTED MATTER-----	40	32	1	7	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	32,986	100		1,094	16,825
2813 ALCOHOLS-----	25,424	27	1		4,754
2817 BENZENE AND TOLUENE-----	25,996				17,947
2819 BASIC CHEMICALS AND PROD, NEC-----	37,810	1,253	1,054	4,161	9,782
2821 PLASTIC MATERIALS-----	472	355	117		
2831 DRUGS-----	52	52			
2841 SOAP-----	116	106	10		
2851 PAINTS-----	193	182	11		
2861 GUM AND WOOD CHEMICALS-----	20	20			
2871 NITROGENOUS CHEM FERTILIZERS-----	22,560	14,528			8,032
2872 POTASSIC CHEM FERTILIZERS-----	67,415				67,415
2891 MISCELLANEOUS CHEMICAL PROD-----	912	752	160		
2913 KEROSENE-----	1,283				1,283
2915 RESIDUAL FUEL OIL-----	18,197				8,783
2917 NAPHTHA, PETROLEUM SOLVENTS-----	20,551				11,688
2920 COKE, PETROLEUM COKE-----	263,783			211,312	52,471
3011 RUBBER AND MISC PLASTIC PROD-----	827	819	8		
3111 LEATHER AND LEATHER PRODUCTS-----	236	221	15		
3211 GLASS AND GLASS PRODUCTS-----	477	477			
3251 STRUCTURAL CLAY PRODUCTS-----	3,785	2,928	19	838	
3261 CUT STONE AND STONE PRODUCTS-----	145	145			
3291 MISC NONMETALLIC MINERAL PROD-----	73	38	35		
3314 IRON AND STEEL PRIMARY FORMS-----	57,067	57,067			
3315 IRON, STEEL SHAPES, EXC SHEET-----	786,640	742,330		44,318	
3316 IRON AND STEEL PLATES, SHEETS-----	10,104	10,104			
3317 IRON AND STEEL PIPE AND TUBE-----	16,281	15,505		776	
3318 FERROALLOYS-----	28,011	19,392			8,619
3319 IRON AND STEEL PRODUCTS, NEC-----	4,656	4,656			
3321 NONFERROUS METALS, NEC-----	204	195	9		
3322 COPPER ALLOYS, UNWORKED-----	96	96			
3323 LEAD AND ZINC, UNWORKED-----	26,992	26,992			
3324 ALUMINUM AND ALLOYS, UNWORKED-----	15,387	15,338	49		
3411 FABRICATED METAL PRODUCTS-----	20,713	20,550	98	65	
3511 MACHINERY, EXCEPT ELECTRICAL-----	8,385	8,259	94	11	21
3611 ELECTRICAL MACH AND EQUIP-----	1,218	1,061	41	116	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	323	229	65	6	23
3731 SHIPS AND BOATS-----	18	18			
3791 MISC TRANSPORTATION EQUIPMENT-----	315	315			
3811 INSTR, TIME, PHOTO, OPT GOODS-----	49	45	4		
3911 MISC MANUFACTURED PRODUCTS-----	290	284	6		
4011 IRON AND STEEL SCRAP-----	552	552			
4012 NONFERROUS METAL SCRAP-----	724	724			
4022 TEXTILE WASTE, SCRAP, SHEEP-----	1		1		
4112 COMMODITIES, NEC-----	2,810	335	3	64	3
9999 DEPARTMENT OF DEFENSE AND SCI-----	2		2		2,205
TON-MILES, FOREIGN,	3,218,211.				

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE		THROUGH	
		RECEIPTS	SHIPMENTS	EASTBOUND	WESTBOUND
TOTAL-----	2,850,288	1,542,201	648,786	77,995	381,216
1011 IRON ORE AND CONCENTRATES-----	594,133	594,133			
1061 MANGANESE ORES, CONCENTRATES-----	500			500	
1121 COAL AND LIGNITE-----	368,468		368,468		
1411 LIMESTONE-----	880,050	857,550			22,500
1899 NONMETALLIC MINERALS, NEC-----	36,787				36,787
2099 MISCELLANEOUS FOOD PRODUCTS-----	11,200	11,200			
2810 SODIUM HYDROXIDE-----	9,973		9,973		
2819 BASIC CHEMICALS AND PROD, NEC-----	54,805		4,730	50,075	
2911 GASOLINE-----	8,504		4,236	4,268	
2912 JET FUEL-----	9,721		7,386	2,335	
2913 KEROSENE-----	8,419		7,177		1,242
2914 DISTILLATE FUEL OIL-----	33,311		30,975	2,336	
2915 RESIDUAL FUEL OIL-----	74,941	15,471	36,254	18,481	4,735
2916 LUBRICATING OILS AND GREASES-----	5,377		5,377		
2918 ASPHALT, TAR, AND PITCHES-----	9,193				9,193
2920 COKE, PETROLEUM COKE-----	179,587		179,587		
3241 BUILDING CEMENT-----	231,759				231,759
3314 IRON AND STEEL PRIMARY FORMS-----	53,877	51,130			2,747
3319 IRON AND STEEL PRODUCTS, NEC-----	7,230	7,230			
3411 FABRICATED METAL PRODUCTS-----	72,453	200			72,253
TON-MILES, LAKEWISE,	11,545,577.				

## CHICAGO, IL, DISTRICT

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CALUMET HARBOR AND RIVER, ILL., AND IND.  
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

INTERNAL  
(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL		THROUGH	
				EASTBOUND	WESTBOUND	EASTBOUND	WESTBOUND
TOTAL-----	4,320,980	2,001,433	678,938	342,525	510,927	787,157	
0103 CORN-----	147,850	1,417	119,871				26,562
0104 OATS-----	2,937		2,937				
0107 WHEAT-----	51,540		47,267				4,273
0111 SOYBEANS-----	74,319		29,969				44,350
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319				7,319		
1011 IRON ORE AND CONCENTRATES-----	16,437	2,722			13,715		
1051 ALUMINUM ORES, CONCENTRATES-----	1,599	1,599					
1061 MANGANESE ORES, CONCENTRATES-----	57,670	17,195			40,475		
1091 NONFERROUS ORES, CONCENT, NEC-----	9,910	8,310					1,600
1121 COAL AND LIGNITE-----	1,358,693	1,267,943		90,750			
1411 LIMESTONE-----	24,259				1,415		22,844
1442 SAND, GRAVEL, CRUSHED ROCK-----	8,571	4,552			4,019		
1451 CLAY-----	1,411				1,411		
1499 NONMETALLIC MINERALS, NEC-----	88,862	74,425			14,437		
2042 ANIMAL FEEDS-----	11,450		10,192				1,258
2049 GRAIN MILL PRODUCTS, NEC-----	14,476	2,757	11,719				
2061 SUGAR-----	11,022	11,022					
2062 MOLASSES-----	13,292	13,292					
2421 LUMBER-----	1,598	1,598					
2431 VENEER, PLYWOOD, WORKED WOOD-----	2,557	2,557					
2631 PAPER AND PAPERBOARD-----	5,022	3,622			1,400		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	43,300		13,500	25,200			4,600
2813 ALCOHOLS-----	7,919	5,252		2,667			
2817 BENZENE AND TOLUENE-----	48,655		20,899	27,756			
2819 BASIC CHEMICALS AND PROD, NEC-----	45,413	812	14,000	11,023	19,578		
2871 NITROGENOUS CHEM FERTILIZERS-----	157,057	24,543		7,135	103,154		22,225
2872 POTASSIC CHEM FERTILIZERS-----	4,369	4,369					
2873 PHOSPHATIC CHEM FERTILIZERS-----	10,994	1,274			9,720		
2879 FERTILIZER AND MATERIALS, NEC-----	9,067				9,067		
2891 MISCELLANEOUS CHEMICAL PROD-----	25,623	2,562	23,061				
2911 GASOLINE-----	19,663	2,863					16,800
2913 KEROSENE-----	5,015	5,015					
2914 DISTILLATE FUEL OIL-----	23,022		8,407	14,615			
2915 RESIDUAL FUEL OIL-----	43,552			40,752			2,800
2916 LUBRICATING OILS AND GREASES-----	52,521			1,400			51,121
2917 NAPHTHA, PETROLEUM SOLVENTS-----	28,396		13,713	14,683			
2918 ASPHALT, TAR, AND PITCHES-----	39,584		3,000	5,600			30,984
2920 COKE, PETROLEUM COKE-----	380,555	150,934	30,979	100,944	11,593		86,105
3241 BUILDING CEMENT-----	6,260	6,260					
3271 LIME-----	1,436		1,436				
3311 PIG IRON-----	23,494	20,462	3,032				
3312 SLAG-----	199,872	10,584	33,444		84,387		71,457
3314 IRON AND STEEL PRIMARY FORMS-----	228,256	54,613	8,246		75,479		89,918
3315 IRON, STEEL SHAPES, EXC SHEET-----	143,589	51,990	32,395		7,538		51,666
3316 IRON AND STEEL PLATES, SHEETS-----	141,278	21,834	26,167		1,443		91,834
3317 IRON AND STEEL PIPE AND TUBE-----	7,637	7,637					
3318 FERROALLOYS-----	153,155	120,454	4,420		26,866		1,415
3319 IRON AND STEEL PRODUCTS, NEC-----	49,887	6,565	17,158				26,164
3323 LEAD AND ZINC, UNWORKED-----	8,312	8,312					
3324 ALUMINUM AND ALLOYS, UNWORKED-----	6,057	6,057					
3411 FABRICATED METAL PRODUCTS-----	340				300		40
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,314	110	1,200		1,004		
3731 SHIPS AND BOATS-----	214	130	84				
4011 IRON AND STEEL SCRAP-----	492,578	74,988	201,842		76,607		139,141
4112 COMMODITIES, NEC-----	802	802					
TON-MILES, INTERNAL,-----	14,824,812.						
TONS, ALL TRAFFIC,-----	9,523,714.						
TON-MILES, ALL TRAFFIC,-----	29,588,600.						

## PORT OF CHICAGO, ILL.

SECTION INCLUDED: CHICAGO HARBOR, CHICAGO RIVER, MAIN AND NORTH BRANCH, CHICAGO RIVER, SOUTH BRANCH, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL AND LAKE CALUMET, ILL., CALUMET HARBOR AND RIVER, ILL., AND IND. PROJECT DEPTH: SEE CHICAGO HARBOR, CHICAGO RIVER, MAIN AND NORTH BRANCH, CHICAGO RIVER, SOUTH BRANCH, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL AND LAKE CALUMET, ILL., CALUMET HARBOR AND RIVER, ILL., AND IND.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	39,690,722	329,082	1983-----	24,454,287	591,988
1979-----	38,692,988	373,754	1984-----	23,813,368	655,124
1980-----	32,993,244	305,744	1985-----	22,610,102	504,000
1981-----	31,599,167	300,090	1986-----	24,330,497	604,816
1982-----	26,819,783	331,152	1987-----	20,705,271	255,070

## PORT OF CHICAGO, ILL.--CONTINUED

## FREIGHT TRAFFIC, 1987

## FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	2,595,585	1,122,569	113,589	1,301,672	57,763
0107 WHEAT-----	11,795	-----	8,820	2,975	-----
0111 SOYBEANS-----	99,587	-----	99,587	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	24	16	8	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	40	40	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	52	52	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	10	10	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	727,277	107,627	-----	619,650	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	6,714	1,808	-----	4,906	-----
1121 COAL AND LIGNITE-----	30,972	-----	-----	30,972	-----
1311 CRUDE PETROLEUM-----	23,385	-----	-----	23,385	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	368	368	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	138,910	22	-----	138,888	-----
2031 FISH AND SHELLFISH, PREPARED-----	46	46	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	66	66	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	38	38	-----	-----	-----
2042 ANIMAL FEEDS-----	455	-----	455	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	119	54	65	-----	-----
2081 ALCOHOLIC BEVERAGES-----	309	273	-----	36	-----
2091 VEGETABLE OILS, MARG, SHORT-----	193	177	16	-----	-----
2095 ICE-----	20	20	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	3,160	397	2,763	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	206	166	-----	38	-----
2311 APPAREL-----	106	106	-----	-----	-----
2421 LUMBER-----	2,844	5	-----	2,839	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	9	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	24	24	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	175	175	-----	-----	-----
2611 PULP-----	7	-----	7	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,179	-----	6	1,173	-----
2631 PAPER AND PAPERBOARD-----	253	82	53	118	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	175	174	1	-----	-----
2711 PRINTED MATTER-----	40	39	1	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	33,015	1,223	-----	31,792	-----
2813 ALCOHOLS-----	25,424	27	1	25,396	-----
2817 BENZENE AND TOLUENE-----	25,996	-----	-----	20,704	5,292
2819 BASIC CHEMICALS AND PROD, NEC-----	39,179	5,435	1,054	32,690	-----
2821 PLASTIC MATERIALS-----	472	355	117	-----	-----
2831 DRUGS-----	52	52	-----	-----	-----
2841 SOAP-----	136	126	10	-----	-----
2851 PAINTS-----	193	182	11	-----	-----
2861 GUM AND WOOD CHEMICALS-----	20	20	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	22,560	14,528	-----	8,032	-----
2872 POTASSIC CHEM FERTILIZERS-----	90,631	-----	-----	90,631	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	912	752	160	-----	-----
2913 KEROSENE-----	1,283	-----	-----	1,283	-----
2915 RESIDUAL FUEL OIL-----	23,430	-----	-----	23,430	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	20,551	-----	-----	20,551	-----
2920 COKE, PETROLEUM COKE-----	263,783	-----	-----	211,312	52,471
3011 RUBBER AND MISC PLASTIC PROD-----	828	820	8	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	236	221	15	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	477	477	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	3,785	3,766	19	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	167	167	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	73	38	35	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	57,067	57,067	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	798,164	798,164	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	10,109	10,109	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	16,952	16,952	-----	-----	-----
3318 FERROALLOYS-----	28,011	19,392	-----	8,619	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	4,656	4,656	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	204	195	9	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	138	138	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	26,992	26,992	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	15,406	15,357	49	-----	-----
3411 FABRICATED METAL PRODUCTS-----	21,052	20,954	98	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	8,503	8,388	94	21	-----
3611 ELECTRICAL MACH AND EQUIP-----	1,327	1,286	41	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	323	235	65	23	-----
3731 SHIPS AND BOATS-----	18	18	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	414	414	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	49	45	4	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	292	286	6	-----	-----
4011 IRON AND STEEL SCRAP-----	552	552	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	982	982	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	1	-----	1	-----	-----
4112 COMMODITIES, NEC-----	2,610	399	3	2,208	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	2	-----	2	-----	-----

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		LAKEWISE		INTERNAL		LOCAL
		SHIPMENTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	18,109,686	8,539	2,114,781	818,109	9,354,605	5,094,981	2,718,671	
0103 CORN-----	414,552				1,417	413,135		

PORT OF CHICAGO, ILL.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE	LAKEWISE		INTERNAL		LOCAL
		SHIPMENTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
0104 OATS-----	2,937					2,937	
0107 WHEAT-----	61,391					61,391	
1011 SOYBEANS-----	147,767					147,767	
1011 IRON ORE AND CONCENTRATES-----	596,855		594,133		2,722		
1051 ALUMINUM ORES, CONCENTRATES-----	2,971				2,971		
1061 MANGANESE ORES, CONCENTRATES-----	23,080			500	22,580		
1091 NONFERRUS ORES, CONCENT, NEC-----	15,434				15,434		
1121 COAL AND LIGNITE-----	4,014,229			368,468	3,555,011		90,750
1311 CRUDE PETROLEUM-----	186,200					167,731	15,941
1411 LIMESTONE-----	910,129		907,104		3,025		
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,987,165				1,222,715	314,550	1,449,900
1499 NONMETALLIC MINERALS, NEC-----	443,354		78,324		304,260		60,750
2014 TALLOW, ANIMAL FATS AND OILS-----	36,867					36,867	
2042 ANIMAL FEEDS-----	26,109				4,340	21,769	
2049 GRAIN MILL PRODUCTS, NEC-----	21,790				2,757	19,033	
2061 SUGAR-----	53,412				52,164	1,248	
2062 MOLASSES-----	76,496				76,496		
2091 VEGETABLE OILS, MARU, SHORT-----	2,873				1,473	1,400	
2099 MISCELLANEOUS FOOD PRODUCTS-----	11,200		11,200				
2421 LUMBER-----	9,784				9,784		
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,315				3,315		
2611 PULP-----	7,649				7,649		
2631 PAPER AND PAPERBOARD-----	9,034				9,034		
2810 SODIUM HYDROXIDE-----	528,101			9,973	511,669	6,459	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	156,986				11,752	110,234	35,000
2813 ALCOHOLS-----	396,553				344,373	16,236	35,944
2817 BENZENE AND TOLUENE-----	104,097				12,904	44,122	47,071
2818 SULPHURIC ACID-----	1,313				1,313		
2819 BASIC CHEMICALS AND PROD, NEC-----	581,792			59,305	330,997	45,818	145,672
2871 NITROGENOUS CHEM FERTILIZERS-----	73,079		2,010	9,479	47,425	2,541	11,624
2872 POTASSIC CHEM FERTILIZERS-----	7,337				7,337		
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,274				1,274		
2879 FERTILIZER AND MATERIALS, NEC-----	1,467				1,467		
2891 MISCELLANEOUS CHEMICAL PROD-----	59,650				36,589	23,061	
2911 GASOLINE-----	171,568		1,266	22,374	44,690	45,767	57,271
2912 JET FUEL-----	28,285		7,112	18,857			2,316
2913 KEROSENE-----	48,736		1,242	7,177	39,064		1,253
2914 DISTILLATE FUEL OIL-----	435,215		16,213	43,429	122,576	93,925	154,672
2915 RESIDUAL FUEL OIL-----	1,052,521	8,539	49,733	77,730	250,704	394,007	291,008
2916 LUBRICATING OILS AND GREASES-----	330,873		47,377		273,310	6,198	3,463
2918 ASPHALT, TAR, AND BITUMENS-----	169,426			1,400	75,789	51,868	40,349
2920 COKE, PETROLEUM COKE-----	470,245		33,748	17,302	74,762	176,115	167,016
3241 BUILDING CEMENT-----	881,128			179,587	246,459	354,138	400,944
3271 LIME-----	994,760		231,759		763,001		
3311 PIG IRON-----	10,038				8,602	1,436	
3312 SLAG-----	33,736				30,704	3,032	
3314 IRON AND STEEL PRIMARY FORMS-----	44,028				10,564	33,444	
3315 IRON, STEEL SHAPES, EXC SHEET-----	195,466		53,877		119,547	22,544	
3316 IRON, STEEL PLATES, SHEETS-----	408,774				373,809	34,965	
3317 IRON AND STEEL PIPE AND TUBE-----	63,774				37,607	26,167	
3318 FERROALLOYS-----	24,589				23,549	1,040	
3319 IRON AND STEEL PRODUCTS, NEC-----	143,121				137,251	5,870	
3323 LEAD AND ZINC, UNWORKED-----	53,372		7,230		27,648	18,494	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	8,312				8,312		
3411 FABRICATED METAL PRODUCTS-----	7,444				7,444		
3511 MACHINERY, EXCEPT ELECTRICAL-----	74,865		72,453		2,412		
3711 MOTOR VEHICLES, PARTS, EQUIP-----	6,536				3,936	2,600	
3731 SHIPS AND BOATS-----	993				993		
4011 IRON AND STEEL SCRAP-----	214				130	84	
4029 WASTE AND SCRAP, NEC-----	460,052				86,473	372,179	1,400
4112 COMMODITIES, NEC-----	13,239					13,239	
4118 WATERWAY IMPROVEMENT MAT-----	802				802		
TONS, ALL TRAFFIC,-----	1,350					1,350	
TONS, ALL TRAFFIC,-----	20,705,271						

## SUMMARY OF TRAFFIC, CHICAGO AREA, 1987

(SHORT TONS)

LOCALITY	TOTAL	FOREIGN						DOMESTIC					
		OVERSEAS		CANADIAN		COASTWISE		LAKEWISE		INTERNAL		LOCAL	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RE-CEIPTS	SHIP-MENTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
BUFFINGTON HARBOR, IND.---	692,825	15,705	-----	-----	-----	-----	-----	674,120	-----	-----	-----	-----	
GARY HARBOR, IND.---	7,265,788	-----	-----	-----	-----	-----	-----	6,710,965	443,363	15,370	96,090	-----	
INDIANA HARBOR IND.-----	13,335,416	298,165	4,893	211,727	6,750	-----	-----	11,021,917	1,271,463	193,468	296,263	25,770	
PORT OF CHICAGO---	20,705,271	1,122,564	113,586	1,301,672	57,763	-----	8,539	2,114,781	818,109	9,354,605	3,094,981	2,718,671	
TOTAL, UNADJUSTED	41,499,300	1,434,434	123,479	1,513,399	64,513	-----	8,539	20,526,783	2,532,935	9,563,443	3,487,334	2,744,441	
TOTAL, NET-----	41,615,259	1,434,434	123,479	1,513,399	64,513	-----	8,539	20,159,430	2,165,582	9,553,768	3,480,521	3,111,794	

## Waterborne Commerce of the United States, 1987

ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT  
FOR ENTIRE WATERWAY)

SECTION INCLUDED: ILLINOIS RIVER, GRAFTON, ILL. TO CONFLUENCE OF DESPLAINES AND KANKAKEE RIVERS THEN DESPLAINES RIVER TO LOCKPORT, ILL.; CHICAGO SANITARY AND SHIP CANAL, LOCKPORT, ILL. TO DAMEN AVE. IN CHICAGO; CHICAGO RIVER (SOUTH BRANCH), DAMEN AVENUE TO LAKE STREET; CALUMET-SAG CHANNEL, FROM ITS JUNCTION WITH THE CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND; AND THE LITTLE CALUMET RIVER AND CALUMET RIVER TO TURNING BASIN NO. 5. SEE REPORTS FOR ILLINOIS RIVER, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL, AND CHICAGO RIVER, SOUTH BRANCH. PROJECT DEPTH: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	41,609,086	87,630	1983-----	43,513,477	67,380
1979-----	39,339,385	66,490	1984-----	39,630,788	69,060
1980-----	45,526,962	65,612	1985-----	38,530,635	100,324
1981-----	43,111,132	68,738	1986-----	43,427,158	60,496
1982-----	42,719,065	78,122	1987-----	41,411,729	-----

## FREIGHT TRAFFIC, 1987

## COASTWISE AND LAKEWISE

(SHORT TONS)

COMMODITY	TOTAL	DOMESTIC		
		COASTWISE	LAKEWISE	
		SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	286,768	8,539	177,670	100,559
1061 MANGANESE ORES, CONCENTRATES-----	500	-----	-----	500
1311 CRUDE PETROLEUM-----	2,528	-----	-----	2,528
1099 NONMETALLIC MINERALS, NEC-----	39,817	-----	39,817	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	4,500	-----	-----	4,500
2871 NITROGENOUS CHEM FERTILIZERS-----	11,489	-----	2,010	9,479
2911 GASOLINE-----	19,404	-----	1,266	18,138
2912 JET FUEL-----	18,563	-----	7,112	11,471
2913 KEROSENE-----	1,242	-----	1,242	-----
2914 DISTILLATE FUEL OIL-----	28,667	-----	16,213	12,454
2915 RESIDUAL FUEL OIL-----	70,849	8,539	34,262	28,048
2916 LUBRICATING OILS AND GREASES-----	42,000	-----	42,000	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	1,400	-----	-----	1,400
2918 ASPHALT, TAR, AND PITCHES-----	45,789	-----	33,748	12,041
TON-MILES, COASTWISE AND LAKEWISE,-----	8,193,394.	-----	-----	-----

## INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND		OUTBOUND		UPBOUND	DOWNBOUND	THROUGH	
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	41,124,961	9,644,873	449,519	1,284,455	19,745,703	4,174,398	1,174,749	3,132,184	1,519,080
0103 CORN-----	11,254,158	13,297	22,758	1,417	11,921,790	1,491	-----	-----	193,405
0104 OATS-----	2,937	-----	-----	-----	-----	-----	-----	-----	2,937
0106 SORGHUM GRAINS-----	33,747	4,349	-----	-----	29,398	-----	-----	-----	-----
0107 WHEAT-----	269,506	4,310	-----	-----	210,549	-----	-----	-----	54,647
0111 SOYBEANS-----	3,612,255	-----	-----	-----	3,528,672	-----	-----	-----	83,583
0119 OILSEEDS, NEC-----	1,472	-----	-----	-----	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	109	-----	-----	-----	-----	109	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319	-----	-----	-----	-----	-----	-----	7,319	-----
1011 IRON ORE AND CONCENTRATES-----	16,437	-----	-----	-----	-----	-----	-----	16,437	-----
1051 ALUMINUM ORES, CONCENTRATES-----	2,971	1,372	-----	-----	-----	-----	-----	1,599	-----
1061 MANGANESE ORES, CONCENTRATES-----	63,055	2,465	-----	-----	-----	-----	-----	60,590	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	17,034	7,124	-----	-----	-----	-----	-----	8,310	1,600
1121 COAL AND LIGNITE-----	5,847,348	2,405,072	89,577	-----	2,059,388	-----	-----	1,293,311	-----
1311 CRUDE PETROLEUM-----	192,050	5,840	-----	-----	166,893	13,615	5,702	-----	-----
1411 LIMESTONE-----	75,813	38,512	-----	-----	-----	-----	-----	1,415	35,886
1442 SAND, GRAVEL, CRUSHED ROCK-----	3,046,530	63,980	-----	1,065,150	30,612	1,562,317	315,900	8,571	-----
1451 CLAY-----	1,411	-----	-----	-----	-----	-----	-----	1,411	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	11,115	11,115	-----	-----	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	533,447	305,086	39,150	-----	-----	-----	21,600	167,611	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	36,867	-----	-----	-----	1,228	-----	-----	-----	35,639
2042 ANIMAL FEEDS-----	1,847,193	26,454	-----	-----	1,802,983	1,576	-----	-----	14,180
2049 GRAIN MILL PRODUCTS, NEC-----	277,743	2,919	-----	2,757	257,451	-----	-----	-----	14,616
2061 SUGAR-----	54,697	41,142	-----	-----	2,533	-----	-----	11,022	-----
2062 MOLASSES-----	95,194	81,902	-----	-----	-----	-----	-----	13,292	-----
2091 VEGETABLE OILS, MARG, SHORT-----	13,837	11,093	-----	-----	2,744	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	1,088	1,088	-----	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	11,184	9,586	-----	-----	-----	-----	-----	1,598	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,891	1,334	-----	507	-----	-----	-----	2,050	-----
2611 PULP-----	7,649	7,649	-----	-----	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	10,434	5,412	-----	-----	-----	-----	-----	5,022	-----
2810 SODIUM HYDROXIDE-----	523,502	409,946	-----	-----	11,833	-----	-----	101,723	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	224,487	87,393	15,400	-----	103,594	-----	2,800	-----	15,300
2813 ALCOHOLS-----	723,630	223,347	-----	1,267	310,648	166,835	12,344	9,189	-----
2817 BENZENE AND TOLUENE-----	108,289	39,496	1,400	-----	25,779	19,315	1,400	-----	20,899
2818 SULPHURIC ACID-----	1,313	-----	-----	-----	-----	-----	-----	1,313	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,554,155	1,306,446	138,226	-----	16,916	3,246	9,207	67,294	12,620
2871 NITROGENOUS CHEM FERTILIZERS-----	608,652	384,452	2,791	5,055	24,831	25,817	20,839	122,642	22,225
2872 POTASSIC CHEM FERTILIZERS-----	209,377	195,635	-----	-----	3,210	2,995	-----	7,337	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	86,363	72,700	-----	1,274	2,669	-----	-----	9,720	-----
2879 FERTILIZER AND MATERIALS, NEC-----	635,836	620,509	-----	-----	2,999	3,261	-----	9,067	-----
2911 MISCELLANEOUS CHEMICAL PROD-----	60,895	10,005	-----	-----	-----	-----	-----	27,829	23,061
2911 GASOLINE-----	782,146	399,784	16,800	-----	189,368	18,010	155,321	2,863	-----
2912 JET FUEL-----	2,316	-----	-----	-----	-----	-----	2,316	-----	-----

## CHICAGO, IL, DISTRICT

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ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT  
FOR ENTIRE WATERWAY)--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

## INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND		OUTBOUND		THROUGH			
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
2913 KEROSENE-----	40,317	34,049	-----	-----	-----	-----	1,253	5,015	-----
2914 DISTILLATE FUEL OIL-----	729,562	259,824	13,056	-----	154,864	120,586	180,510	-----	722
2915 RESIDUAL FUEL OIL-----	1,646,307	789,950	13,660	-----	501,356	132,503	194,960	10,332	3,546
2916 LUBRICATING OILS AND GREASES-----	337,240	277,333	-----	-----	6,198	2,588	-----	-----	51,121
2917 NAPHTHA, PETROLEUM SOLVENTS-----	200,909	117,489	14,396	-----	36,775	8,794	16,872	6,563	-----
2918 ASPHALT, TAR, AND BITUMENS-----	632,082	238,508	3,000	1,400	162,669	23,957	171,564	-----	30,984
2920 COKE, PETROLEUM COKE-----	1,437,630	93,925	-----	189,373	910,139	6,200	46,811	74,098	117,084
2991 PETROLEUM AND COAL PROD, NEC-----	4,256	4,256	-----	-----	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	802,310	644,495	-----	-----	-----	-----	-----	157,815	-----
3271 LIME-----	81,511	71,473	-----	-----	-----	-----	-----	8,038	1,438
3311 PIG IRON-----	38,294	11,528	-----	-----	-----	-----	-----	23,734	3,032
3312 SLAG-----	201,541	1,669	26,393	4,516	-----	-----	-----	90,455	78,508
3314 IRON AND STEEL PRIMARY FORMS-----	343,093	57,874	-----	-----	15,599	-----	-----	157,656	111,962
3315 IRON, STEEL SHAPES, EXC SHEET-----	529,095	138,919	19,229	-----	46,910	-----	-----	258,132	65,405
3316 IRON AND STEEL PLATES, SHEETS-----	159,991	7,696	800	-----	-----	-----	-----	34,094	117,201
3317 IRON AND STEEL PIPE AND TUBE-----	31,684	19,942	-----	-----	1,040	-----	-----	10,702	-----
3318 FERROALLOYS-----	171,402	8,821	-----	-----	-----	-----	-----	155,696	7,285
3319 IRON AND STEEL PRODUCTS, NEC-----	77,061	12,697	7,958	-----	4,690	-----	-----	14,816	56,700
3323 LEAD AND ZINC, UNWORKED-----	8,312	-----	-----	-----	-----	-----	-----	8,312	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	7,444	-----	-----	-----	-----	-----	-----	7,444	-----
3411 FABRICATED METAL PRODUCTS-----	4,288	3,546	-----	-----	-----	400	-----	300	40
3511 MACHINERY, EXCEPT ELECTRICAL-----	20,097	11,748	-----	-----	4,748	-----	-----	2,401	1,200
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,342	-----	-----	-----	1,349	-----	-----	993	-----
3731 SHIPS AND BOATS-----	214	-----	-----	-----	-----	-----	-----	130	64
4011 IRON AND STEEL SCRAP-----	722,589	33,695	24,925	11,739	129,626	1,395	14,000	145,535	361,472
4029 WASTE AND SCRAP, NEC-----	23,038	-----	-----	-----	23,038	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	1,552	750	-----	-----	-----	-----	-----	802	-----
4118 WATERWAY IMPROVEMENT MAT-----	1,350	-----	-----	-----	-----	-----	1,350	-----	-----

TON-MILES, INTERNAL, 7,976,863,547.

TONS, ALL TRAFFIC, 41,411,729.

TON-MILES, ALL TRAFFIC, 7,985,056,941.

## INDIANA HARBOR, IND.

SECTION INCLUDED: APPROACH CHANNEL, OUTER HARBOR AND CANAL ENTRANCE CHANNEL TO THE FIRST E. J. & E. R. R. BRIDGE; INDIANA HARBOR CANAL, INCLUDING THE CALUMET RIVER BRANCH TO COLUMBUS DRIVE BRIDGE AND THE LAKE GEORGE BRANCH TO 0.2 MILES PAST INDIANAPOLIS BLVD. PROJECT DEPTH: 29 FEET IN APPROACH CHANNEL, 28 FEET IN HARBOR BASIN, 27 FEET IN CANAL ENTRANCE CHANNEL, AND 22 FEET IN REMAINDER OF CANAL TO 0.2 MILES PAST INDIANAPOLIS BLVD. ON LAKE GEORGE BRANCH AND COLUMBUS DRIVE ON CALUMET RIVER BRANCH.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	20,715,602	1983-----	14,475,365
1979-----	18,418,640	1984-----	14,568,611
1980-----	16,898,932	1985-----	13,249,278
1981-----	16,374,900	1986-----	14,014,139
1982-----	12,303,783	1987-----	13,335,416

## FREIGHT TRAFFIC, 1987

## FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	526,535	298,165	9,893	211,727	6,750
0107 WHEAT-----	9,886	-----	9,886	-----	-----
1011 IRON ORE AND CONCENTRATES-----	439,838	228,125	-----	211,713	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2	2	-----	-----	-----
2711 PRINTED MATTER-----	3	3	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	2,178	2,178	-----	-----	-----
2821 PLASTIC MATERIALS-----	1	1	-----	-----	-----
2911 GASOLINE-----	6,750	-----	-----	-----	6,750
3291 MISC NONMETALLIC MINERAL PROD-----	14	-----	-----	14	-----
3314 IRON AND STEEL PRIMARY FORMS-----	61,916	61,916	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	4,683	4,683	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	1,252	1,252	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	7	-----	7	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	4	4	-----	-----	-----
4112 COMMODITIES, NEC-----	1	1	-----	-----	-----

## INDIANA HARBOR, IND.--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

DOMESTIC  
(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE		INTERNAL		LOCAL
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	12,808,881	11,021,917	1,271,463	193,468	296,263	25,770
1011 IRON ORE AND CONCENTRATES-----	9,328,961	9,327,526	-----	1,435	-----	-----
1061 MANGANESE ORES, CONCENTRATES-----	10,842	-----	-----	10,842	-----	-----
1311 CRUDE PETROLEUM-----	5,056	2,528	-----	-----	-----	2,528
1411 LIMESTONE-----	1,414,071	1,414,071	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	142,082	142,082	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	11,279	-----	-----	11,279	-----	-----
2042 ANIMAL FEEDS-----	1,258	-----	-----	-----	1,258	-----
2817 BENZENE AND TOLUENE-----	38,254	38,254	-----	-----	-----	-----
2873 NITROGENOUS CHEM FERTILIZERS-----	16,625	-----	-----	-----	16,625	-----
2911 GASOLINE-----	567,065	22,374	524,360	-----	16,800	3,531
2912 JET FUEL-----	29,437	18,557	7,112	-----	-----	3,468
2913 KEROSENE-----	2,257	-----	2,257	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	222,018	25,783	196,235	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	88,218	28,967	35,360	-----	5,406	14,485
2916 LUBRICATING OILS AND GREASES-----	98,498	-----	47,377	-----	51,121	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	5,600	1,400	-----	4,200	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	330,887	-----	298,145	-----	30,984	1,758
2920 COKE, PETROLEUM COKE-----	35,329	-----	-----	1,489	33,840	-----
3312 SLAG-----	216,962	-----	160,617	18,787	37,558	-----
3314 IRON AND STEEL PRIMARY FORMS-----	61,654	-----	-----	50,451	11,203	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	19,908	-----	-----	5,938	13,970	-----
3316 IRON AND STEEL PLATES, SHEETS-----	7,475	-----	-----	1,443	6,032	-----
3318 FERROALLOYS-----	19,000	-----	-----	19,000	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	3,015	-----	-----	-----	3,015	-----
4011 IRON AND STEEL SCRAP-----	137,055	-----	-----	88,604	68,451	-----
4112 COMMODITIES, NEC-----	75	75	-----	-----	-----	-----
TONS, ALL TRAFFIC,-----	13,335,416.	-----	-----	-----	-----	-----

## BURNS WATERWAY HARBOR, IND.

SECTION INCLUDED: APPROACH CHANNEL, OUTER HARBOR, AND TWO HARBOR ARMS. PROJECT DEPTH: 30 FEET IN APPROACH CHANNEL, 28 FEET IN OUTER HARBOR, AND 27 FEET IN THE EAST AND WEST HARBOR ARMS.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	7,306,481	1983-----	6,332,235
1979-----	8,077,847	1984-----	8,790,770
1980-----	6,462,020	1985-----	8,178,641
1981-----	7,366,655	1986-----	8,749,674
1982-----	5,458,420	1987-----	7,093,196

## FREIGHT TRAFFIC, 1987

## (SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		OVERSEAS	CANADIAN		LAKEWISE		INTERNAL
			IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	7,093,196	251,581	799,139	28,126	5,245,432	79,747	309,299
0103 CORN-----	26,562	-----	-----	-----	-----	-----	26,562
0107 WHEAT-----	4,273	-----	-----	-----	-----	-----	4,273
0111 SOYBEANS-----	44,350	-----	-----	-----	-----	-----	44,350
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319	-----	-----	-----	-----	7,319	-----
1011 IRON ORE AND CONCENTRATES-----	5,626,646	152,435	747,174	-----	4,714,757	-----	12,280
1061 MANGANESE ORES, CONCENTRATES-----	30,133	-----	-----	-----	500	-----	29,633
1091 NONFERROUS ORES, CONCENT, NEC-----	1,600	-----	-----	-----	-----	-----	1,600
1411 LIMESTONE-----	404,745	-----	-----	-----	403,330	-----	1,415
1442 SAND, GRAVEL, CRUSHED ROCK-----	4,019	-----	-----	-----	-----	-----	4,019
1451 CLAY-----	1,411	-----	-----	-----	-----	-----	1,411
1499 NONMETALLIC MINERALS, NEC-----	39,400	36,242	-----	-----	-----	-----	3,158
2042 ANIMAL FEEDS-----	1,323	-----	-----	-----	-----	-----	1,323
2061 ALCOHOLIC BEVERAGES-----	22	22	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	4	4	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	1,400	-----	-----	-----	-----	-----	1,400
2711 PRINTED MATTER-----	9	9	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	19,576	-----	-----	-----	-----	-----	19,576
2871 NITROGENOUS CHEM FERTILIZERS-----	117,865	1,014	-----	-----	-----	4,497	103,154
2872 POTASSIUM CHEM FERTILIZERS-----	29,890	-----	29,890	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	9,720	-----	-----	-----	-----	-----	9,720
2879 FERTILIZER AND MATERIALS, NEC-----	9,067	-----	-----	-----	-----	-----	9,067
2914 DISTILLATE FUEL OIL-----	14,200	-----	-----	-----	14,200	-----	-----
2915 RESIDUAL FUEL OIL-----	2,098	-----	-----	-----	2,098	-----	-----
2920 COKE, PETROLEUM COKE-----	119,171	-----	-----	28,126	50,418	-----	10,104
3291 MISC NONMETALLIC MINERAL PROD-----	5	5	-----	-----	-----	-----	-----
3311 PIG IRON-----	18,222	-----	18,222	-----	-----	-----	-----
3312 SLAG-----	107,012	-----	-----	-----	60,129	51,826	65,600
3314 IRON AND STEEL PRIMARY FORMS-----	109,553	662	-----	-----	-----	12,864	23,728
3315 IRON, STEEL SHAPES, EXC SHEET-----	70,501	34,493	-----	-----	-----	-----	1,600
3316 IRON AND STEEL PLATES, SHEETS-----	52,853	163	-----	-----	-----	-----	34,488
3317 IRON AND STEEL PIPE AND TUBE-----	702	702	-----	-----	-----	-----	52,690

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**FREIGHT TRAFFIC, 1987--CONTINUED**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN							
		OVERSEAS	CANADIAN		LAKEWISE		DOMESTIC		INTERNAL
			IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3318 FERROALLOYS-----	31,661	23,593	3,853	-----	-----	-----	2,800	1,415	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	29,882	80	-----	-----	-----	5,700	-----	19,002	-----
3323 LEAD AND ZINC, UNWORKED-----	606	606	-----	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	428	428	-----	-----	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	372	32	-----	-----	-----	-----	300	40	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,065	1,065	-----	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	26	26	-----	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	70,503	-----	-----	-----	-----	-----	3,013	67,490	-----



### OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	CDL	TONS	PASSENGERS
PROJECT			
CHICAGO HARBOR, ILL. (INCLUDED IN PORT OF CHICAGO)-----	1121 COAL AND LIGNITE----- 1499 NONMETALLIC MINERALS, NEC----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2211 BASIC TEXTILE PRODUCTS----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2811 CRUDE TAR, OIL, GAS PRODUCTS----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2841 SOAP----- 2872 POTASSIC CHEM FERTILIZERS----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES----- 3011 RUBBER AND MISC PLASTIC PROD----- 3281 CUT STONE AND STONE PRODUCTS----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3316 IRON AND STEEL PLATES, SHEETS----- 3317 IRON AND STEEL PIPE AND TUBE----- 3322 COPPER ALLOYS, UNWORKED----- 3324 ALUMINUM AND ALLOYS, UNWORKED----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4012 NONFERROUS METAL SCRAP-----	1,450 22 13 18 5 13 29 21 20 23,216 722 5,233 5,261 1 22 11,516 5 671 42 19 339 118 109 99 2 258	
	TOTAL-----	49,224	255,070
MICHIGAN CITY HARBOR, IND.-----	NO COMMERCE REPORTED		
NONPROJECT			
BUFFINGTON HARBOR, IND.-----	1051 ALUMINUM ORES, CONCENTRATES----- 1411 LIMESTONE----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL-----	13,705 676,826 1,460 834	
	TOTAL-----	692,825	
GARY HARBOR, IND.-----	1011 IRON ORE AND CONCENTRATES----- 1411 LIMESTONE----- 2811 CRUDE TAR, OIL, GAS PRODUCTS----- 2871 NITROGENOUS CHEM FERTILIZERS----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2920 COKE, PETROLEUM COKE----- 3312 SLAG----- 3314 IRON AND STEEL PRIMARY FORMS----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3316 IRON AND STEEL PLATES, SHEETS----- 3318 FERRUGALLOYS----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 4011 IRON AND STEEL SCRAP-----	6,103,960 565,070 4,600 1,400 1,986 13,321 21,742 369,497 51,312 3,286 34,512 5,066 5,577 72,255 1,004 11,200	
	TOTAL-----	7,265,788	

# DETROIT, MI, DISTRICT

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## PRESQUE ISLE HARBOR, MICH.

SECTION INCLUDED: ENTIRE HARBOR, CONTROLLING AND PROJECT DEPTHS: 30 FEET IN APPROACH AND 28 FEET IN BASIN. NAVIGATION SEASON: MARCH 31 TO JANUARY 21.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	7,956,888	1983-----	5,129,565
1979-----	8,121,748	1984-----	6,848,430
1980-----	7,881,252	1985-----	7,202,744
1981-----	8,119,940	1986-----	4,701,530
1982-----	3,363,535	1987-----	9,332,587

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKENISE	
		EXPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	9,332,587	132,209	4,069,465	1,907,624	3,223,289
1011 IRON ORE AND CONCENTRATES-----	7,375,807	132,097	4,051,914	-----	3,191,796
1121 COAL AND LIGNITE-----	1,422,200	-----	-----	1,422,200	-----
1411 LIMESTONE-----	527,942	-----	11,025	485,424	31,493
2031 FISH AND SHELLFISH, PREPARED-----	112	112	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	6,526	-----	6,526	-----	-----

## MARQUETTE HARBOR, MICH.

SECTION INCLUDED: ENTIRE HARBOR, CONTROLLING DEPTH: 24 FEET. PROJECT DEPTH: 27 FEET. NAVIGATION SEASON: MAY 14 TO NOVEMBER 22.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	86,870	1983-----	253,951
1979-----	153,617	1984-----	180,473
1980-----	77,300	1985-----	178,318
1981-----	67,716	1986-----	356,823
1982-----	175,615	1987-----	616,852

## FREIGHT TRAFFIC, 1987

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKENISE		LOCAL
		RECEIPTS	SHIPMENTS	
TOTAL-----	616,852	581,589	35,167	96
0911 FRESH FISH, EXCEPT SHELLFISH-----	96	-----	-----	96
1011 IRON ORE AND CONCENTRATES-----	35,167	-----	35,167	-----
1121 COAL AND LIGNITE-----	327,907	327,907	-----	-----
1411 LIMESTONE-----	253,682	253,682	-----	-----

## ONTONAGON HARBOR, MICH.

SECTION INCLUDED: MOUTH OF ONTONAGON RIVER, MICH. CONTROLLING DEPTH: 12 FEET IN LAKE APPROACH, 9 FEET BETWEEN ENTRANCE PIERS, AND 5.5 FEET IN HARBOR BASIN. PROJECT DEPTH: 17 FEET IN LAKE APPROACH AND 15 FEET BETWEEN ENTRANCE PIERS.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	22	1983-----	90,802
1979-----	-----	1984-----	85,740
1980-----	4	1985-----	95,035
1981-----	-----	1986-----	265,763
1982-----	-----	1987-----	302,063

## Waterborne Commerce of the United States, 1987

ONTONAGON HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE	LAKEWISE
		SHIPMENTS	RECEIPTS
TOTAL-----	302,063	800	301,263
1121 COAL AND LIGNITE-----	286,257	-----	286,257
1411 LIMESTONE-----	15,006	-----	15,006
3731 SHIPS AND BOATS-----	800	800	-----

ST. MARYS RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF ST. MARYS RIVER FROM LAKE SUPERIOR TO LAKE HURON, INCLUDING AMERICAN PORTS OF SAULT STE. MARIE, RABER, LIME ISLAND, DRUMMOND ISLAND, AND DETOUR, MICHIGAN.

NAME OF CANAL	PROJECT DEPTH	CONTROLLING DEPTH
GROS CAP REEFS-----	30.0	30.0
POINT IROQUOIS SHOAL CHANNEL-----	30.0	29.4
POINT IROQUOIS ANCHORAGE AREAS-----	29.0	21.0
BIRCH POINT COURSE-----	28.0-30.0	30.0
BRUSH POINT COURSE-----	28.0-30.0	-----
POINT LOUISE CHANNEL-----	28.0	28.0
POINT AUX PINS COURSE-----	28.0	28.0
VIDAL SHOALS CHANNEL-----	28.0	28.0

LOCKS AND CANAL (SEE REPORT FOR ST. MARYS FALL CANAL)

BAYFIELD CHANNEL COURSE 1-----	28.0	28.0
ANCHORAGE AND MANEUVER AREA ANGLE COURSES 1 AND 2-----	28.5	28.5
LITTLE RAPIDS COURSES 2 AND 3-----	27.0	27.0
LAKE NICOLET CHANNEL-----	29.0	29.0
LAKE NICOLET ANCHORAGE-----	28.0	28.0
MIDDLE NEEBISH CHANNEL-----	27.0-28.0	27.0
WEST NEEBISH CHANNEL-----	27.5-28.5	27.5
LAKE MUNUSCONG CHANNEL-----	28.0	28.0
LIME ISLAND CHANNEL-----	29.0	29.0
DETOUR PASSAGE-----	30.0	29.0
PIPE ISLAND COURSE-----	29.0	29.0
HATSON REEF COURSE-----	30.0	30.0
CRAB ISLAND-----	30.0	30.0

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC OF PORTS		THROUGH TRAFFIC		TOTAL	
	TONS	PASSENGERS	TONS	PASSENGERS	TONS	PASSENGERS
1978-----	2,736,133	580,493	88,025,435	-----	90,761,568	580,493
1979-----	2,198,618	474,830	88,882,344	-----	91,080,962	474,830
1980-----	1,559,355	586,370	72,750,692	17,852	74,310,047	606,222
1981-----	1,584,584	688,605	74,793,198	-----	76,377,782	688,605
1982-----	917,407	697,601	42,545,216	-----	43,462,623	697,601
1983-----	1,284,698	735,118	51,241,989	-----	52,526,687	735,118
1984-----	1,175,290	757,316	59,150,064	-----	60,325,354	757,316
1985-----	1,240,340	713,095	55,840,925	-----	57,081,265	713,095
1986-----	1,412,841	760,841	49,619,832	-----	51,032,673	760,841
1987-----	1,577,863	863,172	59,896,705	-----	61,474,568	863,172

FREIGHT TRAFFIC, 1987

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		RECEIPTS AND SHIPMENTS	
		FOREIGN		FOREIGN	
		OVERSEAS	CANADIAN	CANADIAN	LAKEWISE
TOTAL-----	6,090,222	66,480	2,420,682	3,369,316	227,379
1011 IRON ORE AND CONCENTRATES-----	21,099	-----	21,099	-----	-----
1121 COAL AND LIGNITE-----	2,825,647	-----	1,801,075	1,018,407	6,165
1411 LIMESTONE-----	2,751,217	-----	468,001	2,082,398	-----
1842 SAND, GRAVEL, CRUSHED ROCK-----	18,696	-----	-----	18,696	-----
1899 NONMETALLIC MINERALS, NEC-----	144,930	-----	56,106	80,959	7,865
2012 MEAT AND PRODUCTS, NEC-----	20	20	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	3,768	3,768	-----	-----	-----
2311 APPAREL-----	8	8	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	4	4	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	14	14	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	50	50	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	21	21	-----	-----	-----
2821 PLASTIC MATERIALS-----	62	62	-----	-----	-----
2841 SOAP-----	8	8	-----	-----	-----
2951 PAINTS-----	19	19	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	92	92	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	7,850	-----	7,850	-----	-----
3241 BUILDING CEMENT-----	251,919	35,770	66,550	149,599	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	26,268	26,268	-----	-----	-----

## DETROIT, MI, DISTRICT

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ST. MARYS RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		RECEIPTS AND SHIPMENTS		
		FOREIGN	DOMESTIC	FOREIGN	DOMESTIC	DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	CANADIAN	LAKEWISE
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3	3	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	70	70	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	287	287	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	1	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	15	15	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	1	-----	1	-----	-----	-----
4118 WATERWAY IMPROVEMENT MAT-----	38,153	-----	-----	38,153	-----	-----

DOWNBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS		
		FOREIGN	DOMESTIC	OTHER		FOREIGN	DOMESTIC	DOMESTIC
		OVERSEAS	CANADIAN			OVERSEAS	CANADIAN	LAKEWISE
TOTAL-----	55,384,346	2,658,603	5,212,254	46,168,370	800	135	347,534	996,650
0102 BARLEY AND RYE-----	481,622	205,045	276,577	-----	-----	-----	-----	-----
0103 CORN-----	36,404	36,404	-----	-----	-----	-----	-----	-----
0104 OATS-----	13,534	-----	13,534	-----	-----	-----	-----	-----
0107 WHEAT-----	2,347,509	1,614,606	143,882	589,021	-----	-----	-----	-----
0111 SOYBEANS-----	282,618	272,928	9,690	-----	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	134,016	134,016	-----	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	8,859	8,859	-----	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	14,700	14,700	-----	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	40,195,302	174,322	3,293,974	36,727,006	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	8,875,966	-----	59,322	8,816,644	-----	-----	-----	-----
1411 LIMESTONE-----	1,356,652	-----	-----	31,493	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	114,044	-----	95,419	-----	-----	-----	328,509	996,650
1451 CLAY-----	109,911	6,638	103,273	-----	-----	-----	19,025	-----
1499 NONMETALLIC MINERALS, NEC-----	21	21	-----	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	4,634	4,634	-----	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	112	112	-----	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	2	-----	-----	-----	-----	-----	2	-----
2041 WHEAT FLOUR AND SEMOLINA-----	757	757	-----	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	1,028	1,028	-----	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	5,143	5,143	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	9,615	9,615	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	11,011	775	10,236	-----	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	448	-----	448	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	15,492	-----	15,492	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	7	-----	-----	-----	-----	7	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	-----	-----	-----	4	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	5,177	7	5,170	-----	-----	-----	-----	-----
2831 DRUGS-----	37	-----	-----	-----	-----	37	-----	-----
2841 SOAP-----	62	62	-----	-----	-----	-----	-----	-----
2851 PAINTS-----	1	1	-----	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	43,048	-----	43,048	-----	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	1,069,729	-----	1,069,729	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	1	-----	-----	-----	-----	1	-----	-----
2915 RESIDUAL FUEL OIL-----	4,206	-----	4,206	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	218,389	158,664	59,725	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	2	2	-----	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	14	-----	14	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	6,526	-----	6,526	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	1	-----	-----	-----	-----	1	-----	-----
3411 FABRICATED METAL PRODUCTS-----	6,241	32	6,190	-----	-----	19	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	89	69	-----	-----	-----	20	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	23	5	-----	-----	-----	18	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	9	-----	-----	-----	-----	9	-----	-----
3731 SHIPS AND BOATS-----	805	-----	5	800	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	17	-----	-----	-----	-----	17	-----	-----
4011 IRON AND STEEL SCRAP-----	10,158	10,158	-----	-----	-----	-----	-----	-----

TONS, ALL TRAFFIC, 61,474,568.  
TON-MILES, ALL TRAFFIC, 3,670,971,158.

ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,  
ONTARIO SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDED: AMERICAN AND CANADIAN NAVIGATION CANALS AND LOCKS AT ST. MARYS FALLS, SAULT STE. MARIE, MICH. AND ONTARIO.  
CONTROLLING DEPTHS: SABIN LOCK 23.1, DAVIS LOCK 23.1, MACARTHUR LOCK 31.0, POE LOCK 32.0 AND 16.8 FEET CANADIAN CANAL. PROJECT DEPTHS:  
SEE ST. MARYS RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	88,634,889	156,470	1983-----	52,792,424	-----
1979-----	90,499,485	113,074	1984-----	61,117,242	-----
1980-----	75,048,943	106,666	1985-----	58,074,841	-----
1981-----	77,022,752	118,532	1986-----	51,407,956	-----
1982-----	43,824,736	105,186	1987-----	62,459,896	-----

## Waterborne Commerce of the United States, 1987

ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,  
ONTARIO SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)--CONTINUED

FREIGHT TRAFFIC, 1987

EASTBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN	DOMESTIC		
		OVERSEAS	CANADIAN	LAKEWISE	OTHER
TOTAL	56,784,658	2,658,603	7,956,885	46,169,370	800
0102 BARLEY AND RYE	481,622	205,045	276,577		
0103 CORN	36,404	36,404			
0104 OATS	13,534		13,534		
0107 WHEAT	2,347,509	1,614,606	143,882	589,021	
0111 SOYBEANS	282,618	272,928	9,690		
0119 OILSEEDS, NEC	134,016	134,016			
0129 FIELD CROPS, NEC	8,859	8,859			
0141 FRESH AND FROZEN VEGETABLES	14,700	14,700			
1011 IRON ORE AND CONCENTRATES	42,946,123	174,322	6,044,795	36,727,006	
1121 COAL AND LIGNITE	6,875,966		59,322	6,816,644	
1411 LIMESTONE	31,493			31,493	
1442 SAND, GRAVEL, CRUSHED ROCK	95,419		95,419		
1451 CLAY	109,911	6,638	103,273		
1499 NONMETALLIC MINERALS, NEC	21	21			
2022 DRIED MILK AND CREAM	4,634	4,634			
2031 FISH AND SHELLFISH, PREPARED	112	112			
2041 WHEAT FLOUR AND SEMOLINA	757	757			
2042 ANIMAL FEEDS	1,026	1,026			
2049 GRAIN MILL PRODUCTS, NEC	5,143	5,143			
2099 MISCELLANEOUS FOOD PRODUCTS	9,615	9,615			
2421 LUMBER	11,011	775	10,236		
2431 VENEER, PLYWOOD, WORKED WOOD	448		448		
2621 STANDARD NEWSPRINT PAPER	15,492		15,492		
2619 BASIC CHEMICALS AND PROD, NEC	5,177	7	5,170		
2841 SOAP	62	62			
2851 PAINTS	1	1			
2871 NITROGENOUS CHEM FERTILIZERS	43,048		43,048		
2872 POTASSIC CHEM FERTILIZERS	1,069,729		1,069,729		
2915 RESIDUAL FUEL OIL	4,206			4,206	
2920 COKE, PETROLEUM COKE	218,389	158,664	59,725		
3011 RUBBER AND MISC PLASTIC PROD	2	2			
3291 MISC NONMETALLIC MINERAL PROD	14		14		
3319 IRON AND STEEL PRODUCTS, NEC	6,526		6,526		
3411 FABRICATED METAL PRODUCTS	32	32			
3511 MACHINERY, EXCEPT ELECTRICAL	69	69			
3611 ELECTRICAL MACH AND EQUIP	5	5			
3731 SHIPS AND BOATS	805		5		800
4011 IRON AND STEEL SCRAP	10,158	10,158			

WESTBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN	DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE
TOTAL	5,673,238	66,480	2,233,077	3,375,681
1011 IRON ORE AND CONCENTRATES	21,099		21,099	
1121 COAL AND LIGNITE	2,025,647		1,801,075	1,024,572
1411 LIMESTONE	2,362,795		280,397	2,082,398
1499 NONMETALLIC MINERALS, NEC	137,065		56,106	80,959
2012 MEAT AND PRODUCTS, NEC	20	20		
2211 BASIC TEXTILE PRODUCTS	3,768	3,768		
2311 APPAREL	8	8		
2511 FURNITURE AND FIXTURES	4	4		
2631 PAPER AND PAPERBOARD	14	14		
2811 CRUDE TAR, OIL, GAS PRODUCTS	50	50		
2819 BASIC CHEMICALS AND PROD, NEC	21	21		
2821 PLASTIC MATERIALS	62	62		
2841 SOAP	8	8		
2851 PAINTS	19	19		
2891 MISCELLANEOUS CHEMICAL PROD	92	92		
2915 RESIDUAL FUEL OIL	7,850		7,850	
3241 BUILDING CEMENT	251,919	35,770	66,550	149,599
3315 IRON, STEEL SHAPES, EXC SHEET	26,268	26,268		
3324 ALUMINUM AND ALLOYS, UNWORKED	3	3		
3411 FABRICATED METAL PRODUCTS	70	70		
3511 MACHINERY, EXCEPT ELECTRICAL	287	287		
3611 ELECTRICAL MACH AND EQUIP	1	1		
3911 MISC MANUFACTURED PRODUCTS	15	15		
4118 WATERWAY IMPROVEMENT MAT	38,153			38,153
TOTAL, ALL TRAFFIC	62,459,896			

## DRUMMOND ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDED: PRIVATE LOADING DOCK ON ST. MARYS RIVER AT DRUMMOND ISLAND, MICH. CONTROLLING DEPTHS: 30 FEET TO AND FROM LAKE HURON; 27.0 FEET TO AND FROM LAKE SUPERIOR; 27.0 FEET TO LAKE SUPERIOR; 23 FEET AT DOCK. PROJECT DEPTH: SEE ST. MARYS RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	2,578,354	83,263	1983-----	1,130,294	223,877
1979-----	2,047,047	66,805	1984-----	1,090,809	240,302
1980-----	1,489,324	218,026	1985-----	1,187,254	209,096
1981-----	1,478,847	239,218	1986-----	1,300,619	245,059
1982-----	814,730	205,456	1987-----	1,515,950	235,236

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC
		CANADIAN	LAKEWISE
		EXPORTS	SHIPMENTS
TOTAL-----	1,515,950	519,300	996,650
1411 LIMESTONE-----	1,478,229	481,579	996,650
1442 SAND, GRAVEL, CRUSHED ROCK-----	37,721	37,721	-----

## GRAYS REEF PASSAGE, MICH.

SECTION INCLUDED: EAST CHANNEL, 3,000 FEET WIDE AND ABOUT 2 MILES LONG. CONTROLLING AND PROJECT DEPTHS: 25 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	6,562,477	948	1983-----	3,732,013	-----
1979-----	7,690,697	-----	1984-----	4,712,145	-----
1980-----	6,020,552	-----	1985-----	4,600,925	-----
1981-----	5,194,810	-----	1986-----	3,980,421	-----
1982-----	3,791,447	-----	1987-----	3,468,160	-----

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		NORTHBOUND	NORTHBOUND	NORTHBOUND	SOUTHBOUND
TOTAL-----	3,468,160	775,670	583,753	1,736,144	368,593
0103 CORN-----	470,576	291,021	179,555	-----	-----
0105 RICE-----	1,592	1,592	-----	-----	-----
0107 WHEAT-----	18,706	18,706	-----	-----	-----
0111 SOYBEANS-----	99,587	99,587	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	16,381	16,381	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	8	8	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	498	498	-----	-----	-----
1121 COAL AND LIGNITE-----	348,998	-----	-----	38,551	308,447
1411 LIMESTONE-----	45,260	-----	6,006	17,295	21,959
1442 SAND, GRAVEL, CRUSHED ROCK-----	683,125	10,002	305,553	367,570	-----
1499 NONMETALLIC MINERALS, NEC-----	6,724	6,724	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	3,003	3,003	-----	-----	-----
2022 DRIED MILK AND CREAM-----	9,448	9,448	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	17	17	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	16,085	16,085	-----	-----	-----
2042 ANIMAL FEEDS-----	455	455	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	73,277	73,277	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	30,899	30,899	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	59,369	59,369	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	3	3	-----	-----	-----
2311 APPAREL-----	961	961	-----	-----	-----
2421 LUMBER-----	207	207	-----	-----	-----
2611 PULP-----	7	7	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	6	6	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	191	191	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	49	49	-----	-----	-----
2711 PRINTED MATTER-----	3	3	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	3	3	-----	-----	-----
2813 ALCOHOLS-----	1	1	-----	-----	-----
2817 BENZENE AND TOLUENE-----	5,292	-----	5,292	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,194	1,194	-----	-----	-----
2821 PLASTIC MATERIALS-----	173	173	-----	-----	-----
2831 DRUGS-----	4	4	-----	-----	-----
2841 SOAP-----	12	12	-----	-----	-----
2851 PAINTS-----	11	11	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	309	309	-----	-----	-----
2911 GASOLINE-----	247,649	-----	6,750	217,733	23,166
2913 KEROSENE-----	1,015	-----	-----	1,015	-----
2914 DISTILLATE FUEL OIL-----	87,477	-----	-----	72,456	15,021
2915 RESIDUAL FUEL OIL-----	11,468	-----	-----	11,468	-----
2916 LUBRICATING OILS AND GREASES-----	10	10	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	150,287	-----	-----	150,287	-----
2920 COKE, PETROLEUM COKE-----	239,586	-----	80,597	158,989	-----

## GRAYS REEF PASSAGE, MICH.--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		NORTHBOUND	NORTHBOUND	NORTHBOUND	SOUTHBOUND
2991 PETROLEUM AND COAL PROD, NEC-----	2	2			
3011 RUBBER AND MISC PLASTIC PROD-----	12	12			
3111 LEATHER AND LEATHER PRODUCTS-----	15	15			
3241 BUILDING CEMENT-----	459,815			459,815	
3251 STRUCTURAL CLAY PRODUCTS-----	19	19			
3291 MISC NONMETALLIC MINERAL PROD-----	36	36			
3312 SLAG-----	240,965			240,965	
3316 IRON AND STEEL PLATES, SHEETS-----	616	616			
3319 IRON AND STEEL PRODUCTS, NEC-----	22	22			
3321 NONFERROUS METALS, NEC-----	9	9			
3324 ALUMINUM AND ALLOYS, UNWORKED-----	79	79			
3411 FABRICATED METAL PRODUCTS-----	116	116			
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,345	2,345			
3611 ELECTRICAL MACH AND EQUIP-----	130	130			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	136	136			
3731 SHIPS AND BOATS-----	6	6			
3811 INSTR, TIME, PHOTO, OPT GOODS-----	40	40			
3911 MISC MANUFACTURED PRODUCTS-----	6	6			
4011 IRON AND STEEL SCRAP-----	131,292	131,292			
4022 TEXTILE WASTE, SCRAP, SWEEP-----	1	1			
4112 COMMODITIES, NEC-----	490	490			
9999 DEPARTMENT OF DEFENSE AND SCI-----	2	2			

## TRAVERSE CITY HARBOR, MICH.

SECTION INCLUDED: CITY OF TRAVERSE CITY AND THE BAY SHORE TO AND INCLUDING THE EXISTING FEDERAL PROJECT LOCATED ABOUT 1.25 MILES NORTH OF THE CITY LIMITS. CONTROLLING DEPTH: 14 AND 10 FEET AT THE EXISTING PROJECT. PROJECT DEPTH: 14 AND 10 FEET AT THE EXISTING PROJECT. NAVIGATION SEASON: MARCH 4 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	426,212	1983-----	270,607
1979-----	318,194	1984-----	325,529
1980-----	323,314	1985-----	221,850
1981-----	341,147	1986-----	307,774
1982-----	310,805	1987-----	253,225

## FREIGHT TRAFFIC, 1987

## DOMESTIC

(SHORT TONS)

COMMODITY	LAKEWISE
	RECEIPTS
TOTAL-----	253,225
1121 COAL AND LIGNITE-----	36,455
2911 GASOLINE-----	191,413
2914 DISTILLATE FUEL OIL-----	25,357

## LUDINGTON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF PERE MARQUETTE LAKE. CONTROLLING DEPTHS: 23 FEET IN THE OUTER ENTRANCE BAR DECREASING TO 20 FEET THROUGH THE OUTER BASIN AND IN THE CHANNEL TO PERE MARQUETTE LAKE. PROJECT DEPTHS: 18 FEET TO PERE MARQUETTE LAKE. NAVIGATION SEASON: APRIL 2 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	2,397,920	110,006	1983-----	659,845	87,085
1979-----	2,764,888	133,765	1984-----	1,174,955	98,676
1980-----	2,129,001	136,272	1985-----	1,075,051	85,038
1981-----	1,762,302	85,668	1986-----	720,904	85,109
1982-----	1,190,794	86,515	1987-----	894,477	84,599

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN OVERSEAS	DOMESTIC LAKEWISE	
		EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	894,477	5,104	674,156	215,817
0141 FRESH AND FROZEN VEGETABLES-----	927		594	333
1121 COAL AND LIGNITE-----	9,679			9,679

## DETROIT, MI, DISTRICT

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LUDINGTON HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN OVERSEAS	DOMESTIC LAKELINE	
		EXPORTS	RECEIPTS	SHIPMENTS
1411 LIMESTONE-----	388,775	-----	388,775	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	98,207	-----	4,789	93,418
1451 CLAY-----	25,602	-----	-----	25,602
1499 NONMETALLIC MINERALS, NEC-----	10,852	5,071	-----	5,781
2011 MEAT, FRESH, CHILLED, FROZEN-----	1,849	-----	1,849	-----
2021 DAIRY PRODUCTS, NEC-----	1,077	-----	908	169
2034 VEGETABLES AND PREP, NEC-----	897	-----	897	-----
2042 ANIMAL FEEDS-----	2,811	-----	2,811	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,377	-----	2,377	-----
2421 LUMBER-----	15,408	-----	14,612	796
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,367	-----	-----	3,367
2491 WOOD MANUFACTURES, NEC-----	1,012	-----	218	794
2611 PULP-----	23,471	-----	19,169	4,302
2621 STANDARD NEWSPRINT PAPER-----	21,279	-----	21,279	-----
2631 PAPER AND PAPERBOARD-----	84,099	-----	86,696	35,403
2819 BASIC CHEMICALS AND PROD, NEC-----	80,031	33	63,805	16,193
2861 GUM AND WOOD CHEMICALS-----	5,085	-----	5,085	-----
2914 DISTILLATE FUEL OIL-----	96	-----	-----	96
2915 RESIDUAL FUEL OIL-----	80,507	-----	80,507	-----
3011 RUBBER AND MISC PLASTIC PROD-----	11,899	-----	-----	11,899
3241 BUILDING CEMENT-----	6,300	-----	-----	6,300
3291 MISC NONMETALLIC MINERAL PROD-----	1,041	-----	216	825
3312 SLAG-----	17,472	-----	17,472	-----
3317 IRON AND STEEL PIPE AND TUBE-----	27	-----	-----	27
3319 IRON AND STEEL PRODUCTS, NEC-----	148	-----	-----	148
3411 FABRICATED METAL PRODUCTS-----	97	-----	97	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	85	-----	-----	85

## MUSKEGON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF MUSKEGON LAKE. CONTROLLING DEPTHS: 29.0 FEET THROUGH THE OUTER PORTION OF PROJECT AND 27 FEET IN CHANNEL TO MUSKEGON LAKE. PROJECT DEPTH: VARYING FROM 29.0 FEET AT HARBOR ENTRANCE TO 28 FEET BETWEEN BREAKWATERS AND 27 FEET IN INNER CHANNEL. NAVIGATION SEASON: APRIL 7 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	1,952,476	-----	1983-----	932,129	-----
1979-----	1,906,688	-----	1984-----	1,303,734	-----
1980-----	1,235,315	-----	1985-----	773,581	-----
1981-----	1,158,499	-----	1986-----	1,192,780	-----
1982-----	1,153,336	-----	1987-----	1,201,746	-----

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN OVERSEAS		DOMESTIC LAKELINE		
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,201,746	3,539	31,442	2,314	1,144,494	17,166
1121 COAL AND LIGNITE-----	914,675	-----	-----	-----	914,675	-----
1411 LIMESTONE-----	32,327	-----	-----	-----	32,327	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	12,849	-----	-----	-----	-----	10,058
2911 GASOLINE-----	48,343	-----	-----	-----	48,343	-----
2914 DISTILLATE FUEL OIL-----	55,325	-----	-----	-----	55,325	-----
2918 ASPHALT, TAR, AND PITCHES-----	13,271	-----	-----	-----	6,363	6,908
3241 BUILDING CEMENT-----	87,461	-----	-----	-----	87,461	-----
3311 PIG IRON-----	2,247	-----	-----	2,247	-----	-----
3411 FABRICATED METAL PRODUCTS-----	200	-----	-----	-----	-----	200
3511 MACHINERY, EXCEPT ELECTRICAL-----	3,539	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	67	-----	-----	67	-----	-----
4011 IRON AND STEEL SCRAP-----	31,442	-----	31,442	-----	-----	-----

## GRAND HAVEN HARBOR AND GRAND RIVER, MICH.

SECTION INCLUDED: ENTIRE HARBOR, INCLUDING FERRYSBURG AND SPRING LAKE; AND GRAND RIVER FROM GRAND TRUNK RY. BRIDGE AT FERRYSBURG TO BASS RIVER ABOUT 1.5 MILES. CONTROLLING DEPTHS: 22 FEET IN ENTRANCE CHANNEL; 21 FEET TO THE MOUTH OF THE SOUTH CHANNEL; 19 FEET TO THE SAG; 20 FEET TO GRAND TRUNK RY. BRIDGE AT FERRYSBURG; 17 FEET IN THE TURNING BASIN; 17 FEET IN CHANNEL TO SPRING LAKE; THENCE 8 FEET TO MILE 17.0 AND 5 FEET TO THE END OF THE PROJECT. PROJECT DEPTHS: 23 FEET IN ENTRANCE CHANNEL; 21 FEET TO FERRYSBURG; 18 FEET IN CHANNEL TO SPRING LAKE; 8 FEET TO MOUTH OF BASS RIVER; MISCELLANEOUS SHOALS IN THE TURNING BASIN. NAVIGATION SEASON: MARCH 1 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	701,717	1983-----	1,056,410
1979-----	1,009,966	1984-----	1,358,439
1980-----	585,202	1985-----	1,455,412
1981-----	430,087	1986-----	1,377,201
1982-----	479,311	1987-----	1,388,086



## GRAND HAVEN HARBOR AND GRAND RIVER, MICH.--CONTINUED

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		LAKEWISE	
		EXPORTS	IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	1,388,086	11,655	95,006	293,267	663,858
1121 COAL AND LIGNITE-----	108,405				108,405
1411 LIMESTONE-----	212,370			6,006	189,069
1442 SAND, GRAVEL, CRUSHED ROCK-----	608,268	10,002		287,261	307,005
1499 NONMETALLIC MINERALS, NEC-----	77,041	1,653	63,662		11,726
2871 NITROGENOUS CHEM FERTILIZERS-----	2,912		2,912		
2872 POTASSIC CHEM FERTILIZERS-----	24,970		24,970		
2911 GASOLINE-----	18,295				18,295
2913 KEROSENE-----	7,177				7,177
2914 DISTILLATE FUEL OIL-----	4,819		3,462		1,357
3241 BUILDING CEMENT-----	135,197				135,197
3312 SLAG-----	192,632				192,632

## HOLLAND HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL 23 FEET DECREASING TO 21 FEET DEEP AT THE OUTER END OF THE INNER PIER; THENCE A CHANNEL TO AND THROUGH LAKE MACATANA TO THE WHARVES IN HOLLAND, MICHIGAN, A TURNING BASIN 18 FEET DEEP, A CHANNEL IN BLACK RIVER 21 FEET DEEP AND A SETTLING BASIN ABOVE THE BLACK RIVER CHANNEL TO THE STATE STREET BRIDGE. NAVIGATION SEASON: MARCH 13 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	419,916	1983-----	353,738
1979-----	451,492	1984-----	298,773
1980-----	263,177	1985-----	456,506
1981-----	263,974	1986-----	419,702
1982-----	209,365	1987-----	313,937

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		LAKEWISE	
		EXPORTS	IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	313,937	16,136	17,928	18,292	261,581
1121 COAL AND LIGNITE-----	122,589				122,589
1411 LIMESTONE-----	83,939				83,939
1442 SAND, GRAVEL, CRUSHED ROCK-----	18,292			18,292	
1499 NONMETALLIC MINERALS, NEC-----	30,812		17,928		12,884
3312 SLAG-----	42,169				42,169
4011 IRON AND STEEL SCRAP-----	16,136	16,136			

## ST. JOSEPH HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND LOWER PORTION OF ST. JOSEPH RIVER TO AND INCLUDING BENTON HARBOR CANAL. CONTROLLING DEPTH: 24 FEET AT ENTRANCE; 24 FEET BETWEEN ENTRANCE PIERS AND IN THE RIVER TO THE MOUTH OF THE PAN PAN RIVER; WITH 1 FOOT OF SHOALING ALONG THE CHANNEL LIMITS; 17 FEET IN THE TURNING BASIN; AND 18 FEET AT BENTON HARBOR CANAL. PROJECT DEPTHS: 21 FEET AT ENTRANCE, AND IN CHANNEL AND RIVER TO THE MOUTH OF THE PAN PAN RIVER; 18 FEET IN TURNING BASINS AND THE BENTON HARBOR CANAL. NAVIGATION SEASON: MARCH 7 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	320,633	1983-----	243,348
1979-----	443,895	1984-----	330,042
1980-----	445,889	1985-----	390,330
1981-----	429,216	1986-----	432,818
1982-----	270,254	1987-----	492,392

## FREIGHT TRAFFIC, 1987

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE
		RECEIPTS
TOTAL-----		492,392
1411 LIMESTONE-----		315,684
1499 NONMETALLIC MINERALS, NEC-----		17,945
3241 BUILDING CEMENT-----		111,131
3312 SLAG-----		47,632

## DETROIT, MI, DISTRICT

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## MILWAUKEE HARBOR, WIS.

SECTION INCLUDED: LAKE APPROACH CHANNEL, OUTER HARBOR, MILWAUKEE RIVER TO BUFFALO STREET, LOWER 2 MILES OF MEMOMONEE RIVER, LOWER 2 MILES OF KINNICKINNICK RIVER AND SOUTH MEMOMONEE AND BURHAM CANALS. CONTROLLING AND PROJECT DEPTHS: 30 FEET IN LAKE APPROACH CHANNEL, 28 FEET IN THE ENTRANCE CHANNEL AND THE SOUTH OUTER HARBOR, 21 FEET IN THE NORTH OUTER HARBOR, 27 FEET IN THE KINNICKINNICK RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 1.0, THENCE 21 FEET TO SOUTH KINNICKINNICK AVENUE BRIDGE, 27 FEET IN MILWAUKEE RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 0.21, THENCE 21 FEET TO EAST BUFFALO STREET BRIDGE, 21 FEET IN MEMOMONEE RIVER AND SOUTH MEMOMONEE AND BURHAM CANALS.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	4,497,949	113,381	1983-----	2,740,575	109,294
1979-----	4,679,800	101,606	1984-----	2,993,065	167,428
1980-----	4,079,506	97,681	1985-----	2,489,684	101,652
1981-----	3,000,454	72,494	1986-----	1,623,143	73,478
1982-----	2,249,033	68,164	1987-----	2,161,038	-----

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		CANADIAN		DOMESTIC LAKEWISE	
		OVERSEAS					
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	2,161,038	116,923	575,523	378,985	179,555	902,052	8,000
0103 CORN-----	470,576	-----	291,021	-----	179,555	-----	-----
0105 RICE-----	1,592	-----	1,592	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	14,373	-----	14,373	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	498	-----	498	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	371,148	-----	-----	-----	-----	371,148	-----
1311 CRUDE PETROLEUM-----	60,829	60,829	-----	-----	-----	-----	-----
1411 LIMESTONE-----	37,669	-----	-----	-----	-----	37,669	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	32,798	-----	-----	-----	-----	32,798	-----
1499 NONMETALLIC MINERALS, NEC-----	376,960	-----	-----	310,170	-----	66,790	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	3,003	-----	3,003	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	9,448	-----	9,448	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	17	-----	17	-----	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	16,085	-----	16,085	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	67	-----	67	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	68,697	-----	68,697	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	18	-----	18	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	28,656	-----	28,656	-----	-----	-----	-----
2095 ICE-----	42	-----	42	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	61,033	-----	53,033	-----	-----	-----	8,000
2211 BASIC TEXTILE PRODUCTS-----	6,268	6,268	-----	-----	-----	-----	-----
2311 APPAREL-----	961	-----	961	-----	-----	-----	-----
2421 LUMBER-----	313	26	287	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	10	10	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	412	274	138	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	48	-----	48	-----	-----	-----	-----
2711 PRINTED MATTER-----	3	1	2	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,423	-----	-----	3,423	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	3	-----	3	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	2,229	-----	-----	2,229	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	129	22	107	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	98	42	56	-----	-----	-----	-----
2831 DRUGS-----	4	-----	4	-----	-----	-----	-----
2841 SOAP-----	2	-----	2	-----	-----	-----	-----
2851 PAINTS-----	158	158	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	27,634	610	-----	-----	-----	27,024	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	373	224	149	-----	-----	-----	-----
2916 LUBRICATING OILS AND GREASES-----	10	-----	10	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	5	4	1	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	2	2	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	366,423	-----	-----	-----	-----	366,423	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1	-----	1	-----	-----	-----	-----
3311 PIG IRON-----	63,163	-----	63,163	-----	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	9,291	9,291	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	36,637	36,637	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,246	630	616	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	22	-----	22	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	35	5	30	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	108	90	18	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	3,597	1,354	2,243	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	162	73	89	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	315	244	71	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	6	-----	6	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	34	2	34	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	83,714	-----	83,714	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	487	-----	487	-----	-----	-----	-----

## SHEBOYGAN HARBOR, WIS.

SECTION INCLUDED: OUTER HARBOR AND LOWER 1.0 MILES OF RIVER. CONTROLLING AND PROJECT DEPTHS: 25 FEET IN ENTRANCE CHANNEL; 21-25 FEET IN THE TURNING BASIN; 21 FEET IN THE RIVER CHANNEL TO MARYLAND AVENUE; 15 FEET TO JEFFERSON AVENUE. NAVIGATION SEASON: 9 APRIL TO 30 DECEMBER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	265,079	1983-----	120,534
1979-----	313,584	1984-----	1,257,861
1980-----	167,576	1985-----	1,095,005
1981-----	119,044	1986-----	920,509
1982-----	148,219	1987-----	843,185

## SHEBOYGAN HARBOR, WIS.--CONTINUED

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	RECEIPTS	SHIPMENTS
		IMPORTS	IMPORTS		
TOTAL-----	843,185	3,293	30,165	416,281	393,446
1121 COAL AND LIGNITE-----	787,429	-----	-----	416,281	371,148
1499 NONMETALLIC MINERALS, NEC-----	30,165	-----	30,165	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	4,500	-----	-----	-----	4,500
2871 NITROGENOUS CHEM FERTILIZERS-----	12,235	3,293	-----	-----	8,942
2915 RESIDUAL FUEL OIL-----	8,656	-----	-----	-----	8,656

## GREEN BAY HARBOR, WIS.

SECTION INCLUDED: OUTER CHANNEL, CHANNEL THROUGH THE CITY OF GREEN BAY AND UPPER RIVER CHANNEL TO CITY OF DE PERE, CONTROLLING AND PROJECT DEPTHS: 26 FEET IN OUTER CHANNEL TO GRASSY ISLAND; 24 FEET IN THE ENTRANCE CHANNEL AND RIVER CHANNEL TO A POINT 1,700 FEET UPSTREAM FROM THE C. & N. W. R. R. BRIDGE; 24 FEET IN THE TURNING BASIN AT THE MOUTH OF THE EAST RIVER; 20 FEET IN THE TURNING BASIN ABOVE THE C. & N. W. R. R. BRIDGE; 18 FEET IN THE UPPER RIVER CHANNEL AND TURNING BASIN AT THE CITY OF DE PERE.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	2,457,924	1983-----	2,440,974
1979-----	2,839,326	1984-----	2,422,674
1980-----	2,299,001	1985-----	2,295,721
1981-----	1,979,865	1986-----	2,199,701
1982-----	2,030,832	1987-----	1,431,203

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	RECEIPTS	SHIPMENTS
		IMPORTS	EXPORTS		
TOTAL-----	1,431,203	83,090	44,453	96,419	1,207,241
0141 FRESH AND FROZEN VEGETABLES-----	4,183	-----	4,183	-----	-----
1121 COAL AND LIGNITE-----	717,397	-----	-----	-----	717,397
1411 LIMESTONE-----	189,558	-----	-----	-----	189,558
1494 GYPSUM, CRUDE AND PLASTERS-----	5,000	-----	-----	-----	5,000
1499 NONMETALLIC MINERALS, NEC-----	117,874	-----	-----	84,165	33,709
2014 TALLOW, ANIMAL FATS AND OILS-----	7,119	-----	7,119	-----	-----
2022 DRIED MILK AND CREAM-----	18,532	-----	18,532	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	10,025	-----	10,025	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	1,212	-----	1,212	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	3,370	-----	3,370	-----	-----
2611 PULP-----	79,616	79,616	-----	-----	-----
2841 SOAP-----	5	-----	5	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	12	12	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	20,182	-----	-----	12,258	7,928
2918 ASPHALT, TAR, AND PITCHES-----	56,567	-----	-----	-----	56,567
2920 COKE, PETROLEUM COKE-----	20,598	-----	-----	-----	20,598
3241 BUILDING CEMENT-----	176,484	-----	-----	-----	176,484
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,130	3,130	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	322	322	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	7	-----	7	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	10	10	-----	-----	-----

## ALPENA HARBOR, MICH.

SECTION INCLUDED: LOWER 4,000 FEET OF RIVER AND PRIVATE HARBORS NORTH OF MOUTH OF THUNDER BAY RIVER, CONTROLLING DEPTH: 21 FEET IN THE BAY SECTION; 17 FEET IN RIVER; 15 FEET IN TURNING BASIN, PROJECT DEPTHS: CHANNEL 24 FEET DEEP FROM THAT DEPTH IN THUNDER BAY TO A POINT 2,500 FEET LAKEWARD OF THE LIGHTHOUSE; THENCE 23 FEET IN RIVER NARROWING TO 100-FOOT WIDTH AT A POINT 700 FEET UPSTREAM FROM THE LIGHTHOUSE; THENCE 100 FEET WIDE AND 22 FEET DEEP TO THE SECOND AVE. BRIDGE; THENCE 18.5 FEET DEEP AND 75 FEET WIDE TO THE UPPER LIMITS OF THE PROJECT; A TURNING BASIN 15 FEET DEEP BY 3.7 ACRES AT THE UPPER END OF PROJECT; AND A TURNING BASIN 19 FEET DEEP AT THE RIVER MOUTH, NAVIGATION SEASON: MARCH 15 TO DECEMBER 17.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	3,203,682	1983-----	2,178,305
1979-----	2,942,149	1984-----	2,423,224
1980-----	2,737,030	1985-----	2,382,346
1981-----	2,170,676	1986-----	2,393,224
1982-----	1,821,190	1987-----	1,968,866

## DETROIT, MI, DISTRICT

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ALPENA HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC	
		OVERSEAS		CANADIAN	LAKEWISE	
		IMPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,968,866	22,706	2,418	6,509	511,609	1,425,624
1051 ALUMINUM DRES, CONCENTRATES-----	22,706	22,706				
1121 COAL AND LIGNITE-----	350,457				350,457	
1411 LIMESTONE-----	5,486				5,486	
1499 NONMETALLIC MINERALS, NEC-----	23,009				23,009	
2914 DISTILLATE FUEL OIL-----	5,487		2,418		3,069	
2915 RESIDUAL FUEL OIL-----	2,797				2,797	
2920 COKE, PETROLEUM COKE-----	121,791				121,791	
3241 BUILDING CEMENT-----	1,432,133			6,509		1,425,624

## SAGINAW RIVER, MICH.

SECTION INCLUDED: FROM THE MOUTH OF THE RIVER TO AND INCLUDING SAGINAW, MICHIGAN. CONTROLLING DEPTHS: 27 FEET FROM THE 25 FOOT CONTOUR IN SAGINAW BAY TO 19 FEET AT THE RIVER MOUTH 4 - 5 FEET MISC. SHOALING ALONG CHANNEL LIMITS; THENCE 24 FEET TO THE PENN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE C&O R.R. BRIDGE IN SAGINAW, MICHIGAN; THENCE 14 FEET TO THE HOLLAND STREET BRIDGE; THENCE ABOUT 7 FEET OVER A WIDTH OF 100 FEET UPSTREAM TO GREEN POINT. CONTROLLING DEPTHS IN TURNING BASINS ARE: ESSEXVILLE - 19 AND 24 FEET; AIRPORT - 21 FEET; CARROLLTON - 19 FEET; SIXTH STREET - 20 FEET; BASIN AT 19 MILE POINT - 15 FEET. PROJECT DEPTHS: 27 FEET FROM THE DEEPWATER IN SAGINAW BAY TO THE RIVER MOUTH; 2 TO 3 FEET OF SHOALING ALONG THE CHANNEL LIMITS FROM THE DY & I.R.R. BRIDGE TO MILE 7 IN THE BAY SECTION; THENCE 26 FEET FOR 0.4 MILES; THENCE 25 FEET TO THE PENN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE C&O R.R. BRIDGE IN SAGINAW; THENCE 16.5 FEET TO THE UPSTREAM LIMIT AT GREEN POINT. 20 AND 25 FEET IN ESSEXVILLE TURNING BASIN; 22 FEET IN THE AIRPORT TURNING BASIN; 20 FEET IN THE CARROLLTON TURNING BASIN; 20 FEET IN THE SIXTH STREET TURNING BASIN AND 15 FEET IN THE TURNING BASIN AT THE 19 MILE POINT. NAVIGATION SEASON: MARCH 24 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	3,173,573	1983-----	2,385,719
1979-----	4,046,126	1984-----	2,541,884
1980-----	3,081,260	1985-----	3,902,669
1981-----	2,593,591	1986-----	3,917,116
1982-----	1,608,792	1987-----	4,342,102

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC	
		OVERSEAS		CANADIAN	LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS SHIPMENTS
TOTAL-----	4,342,102	8,807	5,417	602,026	92,111	3,456,972 96,769
1121 COAL AND LIGNITE-----	166,312					166,312
1411 LIMESTONE-----	2,849,888				52,351	2,797,537
1442 SAND, GRAVEL, CRUSHED ROCK-----	281,813				7,606	274,207
1499 NONMETALLIC MINERALS, NEC-----	227,850			129,638		98,212
2211 BASIC TEXTILE PRODUCTS-----	540	540				
2613 ALCOHOLS-----	930		930			
2619 BASIC CHEMICALS AND PROD, NEC-----	2,365		2,365			
2841 SOAP-----	2,122		2,122			
2871 NITROGENOUS CHEM FERTILIZERS-----	19,604			19,604		
2872 POTASSIC CHEM FERTILIZERS-----	164,360			164,360		
2879 FERTILIZER AND MATERIALS, NEC-----	8,267	8,267				
2911 GASOLINE-----	34,323					11,157 23,166
2914 DISTILLATE FUEL OIL-----	52,904				15,742	9,114 28,048
2915 RESIDUAL FUEL OIL-----	56,187					16,995 39,192
2918 ASPHALT, TAR, AND PITCHES-----	6,363					6,363
3241 BUILDING CEMENT-----	444,773			349,223	16,412	79,138
3312 SLAG-----	23,469			19,169		4,300
3611 ELECTRICAL MACH AND EQUIP-----	32			32		

## ST. CLAIR RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF ST. CLAIR RIVER AND BLACK RIVER UP TO WASHINGTON AVENUE IN PORT HURON. CONTROLLING DEPTHS: 27 TO 30 FEET IN ST. CLAIR RIVER AT PORT HURON AND 20 FEET IN BLACK RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC OF PORTS		THROUGH TRAFFIC		TOTAL	
	TONS	PASSENGERS	TONS	PASSENGERS	TONS	PASSENGERS
1978-----	4,845,300	268,779	102,023,236	962	106,868,536	269,741
1979-----	4,845,648	281,784	107,845,409		112,691,057	281,784
1980-----	5,318,169	298,752	83,692,184		89,010,353	298,752
1981-----	4,446,740	272,715	82,377,416		86,824,156	272,715
1982-----	3,982,476	196,453	50,706,563		54,689,039	196,453
1983-----	5,022,252	186,296	55,100,993		60,123,245	186,296
1984-----	6,642,651	298,649	67,708,065		74,350,716	298,649
1985-----	6,860,528	223,264	63,057,479		69,918,007	223,264
1986-----	9,721,250	212,863	55,628,279		65,349,529	212,863
1987-----	17,015,886	139,658	51,379,833		68,395,719	139,658

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE
TOTAL-----	14,942,768	2,020,133	6,810,945	5,260,412	35,886	4,168	178,127	637,101
0107 WHEAT-----	2,975		2,975					
0161 ANIMALS AND PRODUCTS, NEC-----	16	16						
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,320	40					1,280	
0861 FOREST PRODUCTS, NEC-----	52	52						
0912 SHELLFISH, EXCEPT PREPARED-----	10	10						
1011 IRON ORE AND CONCENTRATES-----	1,509,329	517,454	991,875					
1051 ALUMINUM ORES, CONCENTRATES-----	36,411	36,411						
1091 NONFERROUS ORES, CONCENT, NEC-----	6,714	1,808	4,906					
1121 COAL AND LIGNITE-----	9,723,503		8,647,602	4,590,020				485,881
1311 CRUDE PETROLEUM-----	84,214	60,829	23,385					
1411 LIMESTONE-----	136,887		35,972	22,500	35,886			42,529
1442 SAND, GRAVEL, CRUSHED ROCK-----	117,701	368					117,333	
1499 NONMETALLIC MINERALS, NEC-----	542,567	36,264	77,745	428,558				
2012 MEAT AND PRODUCTS, NEC-----	20	20						
2031 FISH AND SHELLFISH, PREPARED-----	71	46				25		
2034 VEGETABLES AND PREP, NEC-----	66	66						
2039 PREP FRUIT AND VEG JUICE, NEC-----	38	38						
2042 ANIMAL FEEDS-----	221	67					154	
2049 GRAIN MILL PRODUCTS, NEC-----	55	54				1		
2081 ALCOHOLIC BEVERAGES-----	349	313	36					
2091 VEGETABLE OILS, MARG, SHORT-----	177	177						
2095 ICE-----	62	62						
2099 MISCELLANEOUS FOOD PRODUCTS-----	400	397				3		
2211 BASIC TEXTILE PRODUCTS-----	10,784	10,746	38					
2311 APPAREL-----	114	114						
2421 LUMBER-----	117	31					86	
2431 VENEER, PLYWOOD, WORKED WOOD-----	9	9						
2491 WOOD MANUFACTURES, NEC-----	24	24						
2511 FURNITURE AND FIXTURES-----	194	191	1				2	
2611 PULP-----	83,106	79,616				3,411	79	
2621 STANDARD NEWSPRINT PAPER-----	1,173		1,173					
2631 PAPER AND PAPERBOARD-----	565	370	118				77	
2691 PULP AND PAPER PRODUCTS, NEC-----	176	176						
2711 PRINTED MATTER-----	53	52				1		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	36,736	1,273	35,215				248	
2813 ALCOHOLS-----	25,443	27	25,396			20		
2817 BENZENE AND TOLUENE-----	49,253		50,374	38,254			625	
2819 BASIC CHEMICALS AND PROD, NEC-----	49,549	7,656	22,945			476	18,472	
2821 PLASTIC MATERIALS-----	2,512	460				25	2,027	
2831 DRUGS-----	282	52				103	127	
2841 SOAP-----	134	134						
2851 PAINTS-----	359	359						
2861 GUM AND WOOD CHEMICALS-----	20	20						
2871 NITROGENOUS CHEM FERTILIZERS-----	35,232	19,445	15,648				139	
2872 POTASSIC CHEM FERTILIZERS-----	18,300		18,300					
2879 FERTILIZER AND MATERIALS, NEC-----	8,267	8,267						
2891 MISCELLANEOUS CHEMICAL PROD-----	1,081	1,080				1		
2911 GASOLINE-----	39,171		35,403	3,768				
2913 KEROSENE-----	28,354		28,354					
2914 DISTILLATE FUEL OIL-----	123,381		23,143	1,483				98,755
2915 RESIDUAL FUEL OIL-----	111,152		31,280	38,579			31,357	9,936
2916 LUBRICATING OILS AND GREASES-----	55,924		55,924					
2917 NAPHTHA, PETROLEUM SOLVENTS-----	20,551		20,551					
2920 COKE, PETROLEUM COKE-----	109,891		59,473	50,418				
2921 LIQUEFIED GASES-----	271						271	
3011 RUBBER AND MISC PLASTIC PROD-----	824	824						
3111 LEATHER AND LEATHER PRODUCTS-----	221	221						
3211 GLASS AND GLASS PRODUCTS-----	479	479						
3241 BUILDING CEMENT-----	555,514	35,770	519,744					
3251 STRUCTURAL CLAY PRODUCTS-----	3,767	3,766				1		
3281 CUT STONE AND STONE PRODUCTS-----	167	167						
3291 MISC NONMETALLIC MINERAL PROD-----	44	43				1		
3311 PIG IRON-----	56,387		56,387					
3312 SLAG-----	105,926		19,169	86,757				
3314 IRON AND STEEL PRIMARY FORMS-----	128,936	128,936						
3315 IRON, STEEL SHAPES, EXC SHEET-----	903,414	903,375				39		
3316 IRON AND STEEL PLATES, SHEETS-----	10,902	10,902						
3317 IRON AND STEEL PIPE AND TUBE-----	18,906	18,906						
3318 FERROALLOYS-----	48,423	42,985	5,438					
3319 IRON AND STEEL PRODUCTS, NEC-----	4,736	4,736						
3321 NONFERROUS METALS, NEC-----	195	195						
3322 COPPER ALLOYS, UNWORKED-----	138	138						
3323 LEAD AND ZINC, UNWORKED-----	27,598	27,598						
3324 ALUMINUM AND ALLOYS, UNWORKED-----	15,793	15,793						
3411 FABRICATED METAL PRODUCTS-----	21,168	21,147				21		
3511 MACHINERY, EXCEPT ELECTRICAL-----	15,008	14,958	21			26	3	
3611 ELECTRICAL MACH AND EQUIP-----	1,423	1,364	39				20	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,318	515	42			9	1,752	
3731 SHIPS AND BOATS-----	18	18						
3791 MISC TRANSPORTATION EQUIPMENT-----	414	414						
3811 INSTR, TIME, PHOTO, OPT GOODS-----	115	47	67			1		
3911 MISC MANUFACTURED PRODUCTS-----	301	301						
4011 IRON AND STEEL SCRAP-----	552	552						
4012 NONFERROUS METAL SCRAP-----	982	982						
4112 COMMODITIES, NEC-----	2,763	407	2,206	75			75	

## DETROIT, MI, DISTRICT

33

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

DOWNBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE
TOTAL-----	53,452,951	3,484,278	7,167,697	33,767,379	800	4,618	60,659	8,967,520
0102 BARLEY AND RYE-----	481,622	205,045	276,577					
0103 CORN-----	506,980	327,425	179,555					
0104 OATS-----	13,534		13,534					
0105 RICE-----	1,592	1,592						
0107 WHEAT-----	2,366,215	1,633,312	143,882	589,021				
0111 SOYBEANS-----	382,205	372,515	9,690					
0119 OILSEEDS, NEC-----	134,016	134,016						
0129 FIELD CROPS, NEC-----	8,859	8,859						
0141 FRESH AND FROZEN VEGETABLES-----	39,882	35,264				4,618		
0161 ANIMALS AND PRODUCTS, NEC-----	8	8						
0911 FRESH FISH, EXCEPT SHELLFISH-----	498	498						
1011 IRON ORE AND CONCENTRATES-----	24,716,902	174,322	2,710,192	21,832,388				
1121 COAL AND LIGNITE-----	8,844,994		28,350	737,929				8,078,715
1311 CRUDE PETROLEUM-----	16,183		16,183					
1411 LIMESTONE-----	11,214,939		1,872,759	8,453,375				888,805
1442 SAND, GRAVEL, CRUSHED ROCK-----	59,755	10,002	408,977	160,302			12,474	
1451 CLAY-----	109,911	6,638	103,273					
1494 GYPSUM, CRUDE AND PLASTERS-----	685,144		685,144					
1499 NONMETALLIC MINERALS, NEC-----	254,810	6,745	231,826				16,239	
2014 TALLOW, ANIMAL FATS AND OILS-----	10,122	10,122						
2022 DRIED MILK AND CREAM-----	32,614	32,614						
2031 FISH AND SHELLFISH, PREPARED-----	129	129						
2034 VEGETABLES AND PREP, NEC-----	2	2						
2041 WHEAT FLOUR AND SEMOLINA-----	26,867	26,867						
2042 ANIMAL FEEDS-----	1,483	1,483						
2049 GRAIN MILL PRODUCTS, NEC-----	79,632	79,632						
2091 VEGETABLE OILS, MARG, SHORT-----	30,899	30,899						
2099 MISCELLANEOUS FOOD PRODUCTS-----	72,354	72,354						
2211 BASIC TEXTILE PRODUCTS-----	3	3						
2311 APPAREL-----	961	961						
2421 LUMBER-----	8,519	1,062	7,397				60	
2431 VENEER, PLYWOOD, WORKED WOOD-----	448		448					
2611 PULP-----	158	7					151	
2621 STANDARD NEWSPRINT PAPER-----	15,498	6	15,492					
2631 PAPER AND PAPERBOARD-----	198	198						
2691 PULP AND PAPER PRODUCTS, NEC-----	62	53					9	
2711 PRINTED MATTER-----	3	3						
2812 DYES, PIGMENT, TANNING MATS-----	3	3						
2813 ALCOHOLS-----	2,072	931	875				266	
2817 BENZENE AND TOLUENE-----	5,292		5,292					
2819 BASIC CHEMICALS AND PROD, NEC-----	3,806	3,566					240	
2821 PLASTIC MATERIALS-----	182	173					9	
2831 DRUGS-----	41	41						
2841 SOAP-----	2,201	2,201						
2851 PAINTS-----	14	12					2	
2871 NITROGENOUS CHEM FERTILIZERS-----	28,148		28,148					
2872 POTASSIC CHEM FERTILIZERS-----	804,359		804,359					
2876 INSECTICIDES, DISINFECTANTS-----	1	1						
2891 MISCELLANEOUS CHEMICAL PROD-----	329	309					20	
2911 GASOLINE-----	60,050		60,050					
2914 DISTILLATE FUEL OIL-----	99,787		97,348	2,439				
2915 RESIDUAL FUEL OIL-----	66,384		52,471	13,913				
2916 LUBRICATING OILS AND GREASES-----	10	10						
2918 ASPHALT, TAR, AND PITCHES-----	162,035		5,385	156,650				
2920 COKE, PETROLEUM COKE-----	276,459	158,664	80,597	37,198				
2991 PETROLEUM AND COAL PROD, NEC-----	2	2						
3011 RUBBER AND MISC PLASTIC PROD-----	33	14					19	
3111 LEATHER AND LEATHER PRODUCTS-----	15	15						
3211 GLASS AND GLASS PRODUCTS-----	32						32	
3241 BUILDING CEMENT-----	862,355		862,355					
3251 STRUCTURAL CLAY PRODUCTS-----	19	19						
3291 MISC NONMETALLIC MINERAL PROD-----	39	36					3	
3312 SLAG-----	236,665		236,665					
3316 IRON AND STEEL PLATES, SHEETS-----	616	616						
3317 IRON AND STEEL PIPE AND TUBE-----	16						16	
3319 IRON AND STEEL PRODUCTS, NEC-----	8,864	22	8,842					
3321 NONFERROUS METALS, NEC-----	255	9					246	
3322 COPPER ALLOYS, UNWORKED-----	1	1						
3324 ALUMINUM AND ALLOYS, UNWORKED-----	79	79						
3411 FABRICATED METAL PRODUCTS-----	6,370	167	6,190				13	
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,446	2,434					12	
3611 ELECTRICAL MACH AND EQUIP-----	216	160					56	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	30,632	145					30,487	
3731 SHIPS AND BOATS-----	811	6	5		800			
3811 INSTR, TIME, PHOTO, OPT GOODS-----	57	57						
3911 MISC MANUFACTURED PRODUCTS-----	6	6						
4011 IRON AND STEEL SCRAP-----	141,450	141,450						
4022 TEXTILE WASTE, SCRAP, SHEEP-----	1	1						
4112 COMMODITIES, NEC-----	795	490					305	
9999 DEPARTMENT OF DEFENSE AND SCI-----	2	2						

TONS, ALL TRAFFIC, 68,395,719.  
 TON-MILES, ALL TRAFFIC, 2,276,998,794.

## Waterborne Commerce of the United States, 1987

## PORT HURON, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF THE ST. CLAIR RIVER FROM MOUTH OF RIVER TO GRAND TRUNK WESTERN RAILROAD BRIDGE AND BOTH BANKS OF THE BLACK RIVER UP TO WASHINGTON AVENUE IN PORT HURON, MICHIGAN. CONTROLLING DEPTHS: FROM LAKE ST. CLAIR TO STAG ISLAND, 27.1 FEET. IN THE STAG ISLAND TO PORT HURON CHANNEL AND THE FOOT OF LAKE HURON CHANNEL, 27.3 FEET AND 30 FEET RESPECTIVELY. IN THE BLACK RIVER, 17 FEET, FOR A WIDTH OF 70 FEET, FROM THE MOUTH TO 1,700 FEET UPSTREAM OF THE GRAND TRUNK WESTERN RAILROAD BRIDGE, AND 15 FEET FOR A WIDTH OF 50 FEET THROUGH THE SETTLING BASIN TO WASHINGTON AVENUE. PROJECT DEPTHS: IN THE ST. CLAIR RIVER, SLOPES FROM 30 FEET AT MOUTH TO 27.5 FEET AT GRAND TRUNK WESTERN RAILROAD BRIDGE. IN THE BLACK RIVER, 20 FEET FROM THE MOUTH TO THE UPPER END OF THE SETTLING BASIN, ABOUT 2,300 FEET UPSTREAM FROM THE GRAND TRUNK WESTERN RAILROAD BRIDGE.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978	647,097		1983	331,463	
1979	894,465		1984	578,704	
1980	695,641		1985	324,843	
1981	628,426		1986	519,010	
1982	320,993		1987	539,053	

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC
		OVERSEAS		CANADIAN		LAKELWIS
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	539,053	4,164	4,618	42,452	31,933	455,886
0141 FRESH AND FROZEN VEGETABLES-----	4,618		4,618			
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,280			1,280		
1121 COAL AND LIGNITE-----	16,555					16,555
1411 LIMESTONE-----	439,331					439,331
1442 SAND, GRAVEL, CRUSHED ROCK-----	17,015			17,015		
2031 FISH AND SHELLFISH, PREPARED-----	25	25				
2042 ANIMAL FEEDS-----	154			154		
2049 GRAIN MILL PRODUCTS, NEC-----	1	1				
2099 MISCELLANEOUS FOOD PRODUCTS-----	3	3				
2421 LUMBER-----	146			86	60	
2511 FURNITURE AND FIXTURES-----	2			2		
2611 PULP-----	3,641	3,411		79	151	
2631 PAPER AND PAPERBOARD-----	77			77		
2691 PULP AND PAPER PRODUCTS, NEC-----	9				9	
2711 PRINTED MATTER-----	1	1				
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	248			248		
2813 ALCOHOLS-----	273	20			253	
2817 BENZENE AND TOLUENE-----	625			625		
2819 BASIC CHEMICALS AND PROD, NEC-----	19,188	476		18,472	240	
2821 PLASTIC MATERIALS-----	2,061	25		2,027	9	
2831 DRUGS-----	230	103		127		
2851 PAINTS-----	2				2	
2871 NITROGENOUS CHEM FERTILIZERS-----	139			139		
2891 MISCELLANEOUS CHEMICAL PROD-----	21	1			20	
2921 LIQUEFIED GASES-----	271			271		
3011 RUBBER AND MISC PLASTIC PROD-----	19				19	
3211 GLASS AND GLASS PRODUCTS-----	32				32	
3251 STRUCTURAL CLAY PRODUCTS-----	1	1				
3291 MISC NONMETALLIC MINERAL PROD-----	4	1			3	
3315 IRON, STEEL SHAPES, EXC SHEET-----	39	39				
3317 IRON AND STEEL PIPE AND TUBE-----	16				16	
3321 NONFERROUS METALS, NEC-----	246				246	
3411 FABRICATED METAL PRODUCTS-----	34	21			13	
3511 MACHINERY, EXCEPT ELECTRICAL-----	41	26		3	12	
3611 ELECTRICAL MACH AND EQUIP-----	76			20	56	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	32,248	9		1,752	30,487	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1	1				
4112 COMMODITIES, NEC-----	380			75	305	

## MARYSVILLE, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT MARYSVILLE, MICH. CONTROLLING DEPTH: 27.4 FEET. PROJECT DEPTH: AT LOW-WATER DATUM: 27.4 FEET TO AND FROM LAKE HURON; 27.1 FEET DOWNBOUND TO LAKE ST. CLAIR, WITH 2 TO 3 FEET OF SHOALING ALONG SOUTHERN LIMITS OF THE CUT-OFF CHANNEL AT THE INTERSECTION OF LAKE ST. CLAIR.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978	529,920	1983	286,713
1979	425,480	1984	333,285
1980	614,580	1985	73,768
1981	263,797	1986	210,431
1982	293,030	1987	440,089

## MARYSVILLE, MICH. (INCLUDED IN ST. CLAIR RIVER)--CONTINUED

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN CANADIAN		DOMESTIC LAKEWISE
		IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	440,089	131,675	13	308,401
1121 COAL AND LIGNITE-----	200,319	-----	-----	200,319
1411 LIMESTONE-----	101,463	-----	-----	101,463
1442 SAND, GRAVEL, CRUSHED ROCK-----	100,318	100,318	-----	-----
2813 ALCOHOLS-----	13	-----	13	-----
2914 DISTILLATE FUEL OIL-----	6,619	-----	-----	6,619
2915 RESIDUAL FUEL OIL-----	31,357	31,357	-----	-----

## ST. CLAIR, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT ST. CLAIR, MICH. CONTROLLING DEPTH: 27.3 FEET. PROJECT DEPTH: 27.3 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	3,319,786	1983-----	4,241,500
1979-----	3,286,404	1984-----	5,379,966
1980-----	3,726,267	1985-----	6,176,971
1981-----	3,350,691	1986-----	8,608,164
1982-----	3,258,562	1987-----	8,449,794

## FREIGHT TRAFFIC, 1987

## DOMESTIC

(SHORT TONS)

COMMODITY	LAKEWISE RECEIPTS
TOTAL-----	8,449,794
1121 COAL AND LIGNITE-----	8,347,722
2914 DISTILLATE FUEL OIL-----	92,136
2915 RESIDUAL FUEL OIL-----	9,936

## MARINE CITY, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT MARINE CITY, MICH., 21.5 MILES UPBOUND TO LAKE HURON; 19.2 MILES DOWNBOUND TO LAKE ST. CLAIR, MICH. CONTROLLING DEPTH: 27 FEET. PROJECT DEPTH: AT LOW WATER DATUM: 27.3 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	163,653	193,804	1983-----	163,076	114,500
1979-----	239,299	189,620	1984-----	350,696	111,755
1980-----	281,682	215,934	1985-----	270,747	147,883
1981-----	190,020	177,771	1986-----	381,656	129,253
1982-----	109,891	138,377	1987-----	419,253	125,911

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN CANADIAN	DOMESTIC LAKEWISE
		IMPORTS	RECEIPTS
TOTAL-----	419,253	28,713	390,540
1411 LIMESTONE-----	390,540	-----	390,540
1442 SAND, GRAVEL, CRUSHED ROCK-----	12,474	12,474	-----
1499 NONMETALLIC MINERALS, NEC-----	16,239	16,239	-----



## Waterborne Commerce of the United States, 1987

## CHANNELS IN LAKE ST. CLAIR

SECTION INCLUDED: IMPROVED SHIP CHANNELS CONNECTING ST. CLAIR RIVER AND DETROIT RIVER ACROSS LAKE ST. CLAIR, ENTRANCE CHANNELS TO MOUTH OF CLINTON RIVER AND THE CANADIAN CHANNEL TO THE MOUTH OF THE THAMES RIVER, CONTROLLING DEPTHS: 27.0 FEET IN THE MAIN CHANNEL WITH 2 FEET TO 3 FEET MISC. SHOALING ALONG CHANNEL LIMITS 8 FEET IN CHANNEL TO CLINTON RIVER, PROJECT DEPTHS: 27.5 FEET IN MAIN CHANNEL AND 6 FEET IN CLINTON RIVER CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978	102,197,942	962	1983	54,708,477	
1979	107,708,762		1984	67,819,040	
1980	83,914,264		1985	62,889,900	
1981	82,294,163		1986	55,629,249	
1982	50,221,716		1987	58,520,862	

## FREIGHT TRAFFIC, 1987

## UPBOUND

## (SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN	CANADIAN	DOMESTIC	OTHER
		OVERSEAS	LAKEWIDE		
TOTAL	14,621,850	2,024,297	6,664,154	5,897,513	35,886
0107 WHEAT	2,975		2,975		
0161 ANIMALS AND PRODUCTS, NEC	16	16			
0841 CRUDE RUBBER AND ALLIED GUMS	40	40			
0861 FOREST PRODUCTS, NEC	52	52			
0912 SHELLFISH, EXCEPT PREPARED	10	10			
1011 IRON ORE AND CONCENTRATES	1,509,329	517,454	991,875		
1051 ALUMINUM ORES, CONCENTRATES	36,411	36,411			
1091 NONFERROUS ORES, CONCENT, NEC	6,714	1,808	4,906		
1121 COAL AND LIGNITE	9,723,503		4,687,602	5,075,901	
1311 CRUDE PETROLEUM	60,829	60,829			
1411 LIMESTONE	136,887		35,972	65,029	35,886
1442 SAND, GRAVEL, CRUSHED ROCK	368	368			
1499 NONMETALLIC MINERALS, NEC	542,567	36,264	77,745	426,558	
2012 MEAT AND PRODUCTS, NEC	20	20			
2031 FISH AND SHELLFISH, PREPARED	71	71			
2034 VEGETABLES AND PREP, NEC	66	66			
2039 PREP FRUIT AND VEG JUICE, NEC	38	38			
2042 ANIMAL FEEDS	67	67			
2049 GRAIN MILL PRODUCTS, NEC	55	55			
2081 ALCOHOLIC BEVERAGES	349	313	36		
2091 VEGETABLE OILS, MARG, SHORT	177	177			
2095 ICE	62	62			
2099 MISCELLANEOUS FOOD PRODUCTS	400	400			
2211 BASIC TEXTILE PRODUCTS	10,784	10,746	38		
2311 APPAREL	114	114			
2421 LUMBER	31	31			
2431 VENEER, PLYWOOD, WORKED WOOD	9	9			
2491 WOOD MANUFACTURES, NEC	24	24			
2511 FURNITURE AND FIXTURES	192	191	1		
2611 PULP	83,027	83,027			
2621 STANDARD NEWSPRINT PAPER	1,173		1,173		
2631 PAPER AND PAPERBOARD	488	370	118		
2691 PULP AND PAPER PRODUCTS, NEC	176	176			
2711 PRINTED MATTER	53	53			
2811 CRUDE TAR, OIL, GAS PRODUCTS	8,506	1,273	7,233		
2813 ALCOHOLS	47	47			
2817 BENZENE AND TOLUENE	65,695		27,441	38,254	
2819 BASIC CHEMICALS AND PROD, NEC	8,142	8,132	10		
2821 PLASTIC MATERIALS	485	485			
2831 DRUGS	155	155			
2841 SOAP	134	134			
2851 PAINTS	359	359			
2861 GUM AND WOOD CHEMICALS	20	20			
2871 NITROGENOUS CHEM FERTILIZERS	35,093	19,445	15,648		
2872 POTASSIC CHEM FERTILIZERS	18,300		18,300		
2879 FERTILIZER AND MATERIALS, NEC	8,267	8,267			
2891 MISCELLANEOUS CHEMICAL PROD	1,081	1,081			
2911 GASOLINE	39,171		35,403	3,768	
2913 KEROSENE	27,071		27,071		
2914 DISTILLATE FUEL OIL	117,501		17,263	100,238	
2915 RESIDUAL FUEL OIL	85,105		36,590	48,515	
2916 LUBRICATING OILS AND GREASES	55,924		55,924		
2917 NAPHTHA, PETROLEUM SOLVENTS	2,598		2,598		
2920 COKE, PETROLEUM COKE	109,891		59,473	50,418	
3011 RUBBER AND MISC PLASTIC PROD	824	824			
3111 LEATHER AND LEATHER PRODUCTS	221				
3211 GLASS AND GLASS PRODUCTS	479	479			
3241 BUILDING CEMENT	555,514	35,770	519,744		
3251 STRUCTURAL CLAY PRODUCTS	3,767	3,767			
3281 CUT STONE AND STONE PRODUCTS	167	167			
3291 MISC NONMETALLIC MINERAL PROD	44	44			
3311 PIG IRON	56,387		56,387		
3312 SLAG	105,926		19,169	86,757	
3314 IRON AND STEEL PRIMARY FORMS	128,936	128,936			
3315 IRON, STEEL SHAPES, EXC SHEET	903,414	903,414			
3316 IRON AND STEEL PLATES, SHEETS	10,902	10,902			
3317 IRON AND STEEL PIPE AND TUBE	18,906	18,906			
3318 FERROALLOYS	46,234	42,985	3,249		
3319 IRON AND STEEL PRODUCTS, NEC	4,736	4,736			
3321 NONFERROUS METALS, NEC	195	195			
3322 COPPER ALLOYS, UNWORKED	138	138			
3323 LEAD AND ZINC, UNWORKED	27,598	27,598			
3324 ALUMINUM AND ALLOYS, UNWORKED	15,793	15,793			

## CHANNELS IN LAKE ST. CLAIR--CONTINUED

## FREIGHT TRAFFIC, 1967--CONTINUED

## UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN OVERSEAS	CANADIAN	DOMESTIC LAKEWISE	OTHER
3411 FABRICATED METAL PRODUCTS-----	21,168	21,168	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	15,005	14,984	21	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	1,403	1,364	39	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	596	524	72	-----	-----
3731 SHIPS AND BOATS-----	18	18	-----	-----	-----
3741 MISC TRANSPORTATION EQUIPMENT-----	414	414	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	115	48	67	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	301	301	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	552	552	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	982	982	-----	-----	-----
4112 COMMODITIES, NEC-----	493	407	11	75	-----

## DOWNBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN OVERSEAS	CANADIAN	DOMESTIC LAKEWISE	OTHER
TOTAL-----	43,699,012	3,488,896	6,641,937	33,767,379	800
0102 BARLEY AND RYE-----	481,622	205,045	276,577	-----	-----
0103 CORN-----	506,980	327,425	179,555	-----	-----
0104 OATS-----	13,534	-----	13,534	-----	-----
0105 RICE-----	1,592	1,592	-----	-----	-----
0107 WHEAT-----	2,366,215	1,633,312	143,882	589,021	-----
0111 SOYBEANS-----	382,205	372,515	9,690	-----	-----
0119 OILSEEDS, NEC-----	134,016	134,016	-----	-----	-----
0129 FIELD CROPS, NEC-----	8,859	8,859	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	39,882	39,882	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	8	8	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	498	498	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	24,692,923	174,322	2,686,213	21,832,388	-----
1121 COAL AND LIGNITE-----	766,279	-----	28,350	737,929	-----
1311 CRUDE PETROLEUM-----	16,183	-----	16,183	-----	-----
1411 LIMESTONE-----	9,884,911	-----	1,431,536	8,453,375	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	538,876	10,002	368,572	160,302	-----
1451 CLAY-----	109,911	6,638	103,273	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	685,144	-----	-----	685,144	-----
1499 NONMETALLIC MINERALS, NEC-----	238,571	6,785	231,826	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	10,122	10,122	-----	-----	-----
2022 DRIED MILK AND CREAM-----	32,614	32,614	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	129	129	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	2	2	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	26,867	26,867	-----	-----	-----
2042 ANIMAL FEEDS-----	1,483	1,483	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	79,632	79,632	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	30,899	30,899	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	72,354	72,354	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	3	3	-----	-----	-----
2311 APPAREL-----	961	961	-----	-----	-----
2421 LUMBER-----	8,459	1,062	7,397	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	448	-----	448	-----	-----
2611 PULP-----	7	7	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	15,498	6	15,492	-----	-----
2631 PAPER AND PAPERBOARD-----	198	198	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	53	53	-----	-----	-----
2711 PRINTED MATTER-----	3	3	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	3	3	-----	-----	-----
2813 ALCOHOLS-----	1,806	931	875	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	3,566	3,566	-----	-----	-----
2821 PLASTIC MATERIALS-----	173	173	-----	-----	-----
2831 DRUGS-----	41	41	-----	-----	-----
2841 SOAP-----	2,201	2,201	-----	-----	-----
2851 PAINTS-----	12	12	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	28,148	-----	28,148	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	804,359	-----	804,359	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	1	1	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	309	309	-----	-----	-----
2911 GASOLINE-----	53,300	-----	53,300	-----	-----
2914 DISTILLATE FUEL OIL-----	91,676	-----	89,237	2,439	-----
2915 RESIDUAL FUEL OIL-----	66,384	-----	52,471	13,913	-----
2916 LUBRICATING OILS AND GREASES-----	10	10	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	162,035	-----	5,385	156,650	-----
2920 COKE, PETROLEUM COKE-----	276,459	158,664	80,597	37,198	-----
2991 PETROLEUM AND COAL PROD, NEC-----	2	2	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	14	14	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	15	15	-----	-----	-----
3241 BUILDING CEMENT-----	862,355	-----	-----	862,355	-----
3251 STRUCTURAL CLAY PRODUCTS-----	19	19	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	36	36	-----	-----	-----
3312 SLAG-----	236,665	-----	-----	236,665	-----
3316 IRON AND STEEL PLATES, SHEETS-----	616	616	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	8,864	22	8,842	-----	-----
3321 NONFERROUS METALS, NEC-----	9	9	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	1	1	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	79	79	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	4,357	167	4,190	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,434	2,434	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	160	160	-----	-----	-----

## CHANNELS IN LAKE ST. CLAIR--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

## DOWNBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	OTHER
3711 MOTOR VEHICLES, PARTS, EQUIP-----	145	145			
3731 SHIPS AND BOATS-----	811	6	5		800
3811 INSTR, TIME, PHOTO, OPT GOODS-----	57	57			
3911 MISC MANUFACTURED PRODUCTS-----	6	6			
4011 IRON AND STEEL SCRAP-----	141,450	141,450			
4022 TEXTILE WASTE, SCRAP, SHEEP-----	1	1			
4112 COMMODITIES, NEC-----	490	490			
9999 DEPARTMENT OF DEFENSE AND SCI-----	2	2			

TONS, ALL TRAFFIC, 58,520,862.  
TON-MILES, ALL TRAFFIC, 1,053,375,516.

## DETROIT RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF DETROIT RIVER AND ROUGE RIVER TO HEAD OF PROJECT. CONTROLLING DEPTHS: 25 TO 26.5 FEET AND 21 TO 25 FEET, RESPECTIVELY WITH 6 TO 7 FEET OF SHOALING ALONG THE CHANNEL LIMITS OF THE LOWER LIVINGSTONE AND EAST OUTER CHANNEL, AND WITH 2 TO 3 FEET OF SHOALING ALONG THE CENTER LINE THROUGHOUT THE CHANNELS, WITH PROJECT DEPTH IN THE REGULARLY TRAVELED SHIPPING LANES.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC OF PORTS		THROUGH TRAFFIC		TOTAL	
	TONS	PASSENGERS	TONS	PASSENGERS	TONS	PASSENGERS
1978-----	25,881,508	867,828	87,150,328		113,031,836	867,828
1979-----	24,995,987	831,860	93,396,042		118,392,029	831,860
1980-----	19,278,914	484,708	72,793,919		92,072,833	484,708
1981-----	17,839,139	356,694	72,566,737		90,405,876	356,694
1982-----	13,176,099	369,388	43,390,094		56,566,193	369,388
1983-----	14,955,003	879,146	45,805,095		60,760,098	879,146
1984-----	17,530,626	1,617,966	57,521,443		75,052,369	1,617,966
1985-----	15,609,067	1,219,480	53,795,219		69,404,286	1,219,480
1986-----	15,139,865	977,736	46,593,401		61,733,266	977,736
1987-----	14,150,978		48,537,605		62,688,583	

## FREIGHT TRAFFIC, 1987

## UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE	OTHER
TOTAL-----	17,878,027	2,024,297	6,601,458	5,655,135	35,886	614,963	856,519	2,307,997	81,772
0107 WHEAT-----	2,975		2,975						
0129 FIELD CROPS, NEC-----	22					22			
0133 COFFEE-----	8					1	7		
0141 FRESH AND FROZEN VEGETABLES-----	10					10			
0161 ANIMALS AND PRODUCTS, NEC-----	158	16				130	12		
0191 MISCELLANEOUS FARM PRODUCTS-----	5						5		
0841 CRUDE RUBBER AND ALLIED GUMS-----	100	40				60			
0861 FOREST PRODUCTS, NEC-----	116	52				64			
0912 SMELTFISH, EXCEPT PREPARED-----	10	10							
1011 IRON ORE AND CONCENTRATES-----	1,938,010	517,454	970,776			77,919	290,898	80,963	
1051 ALUMINUM ORES, CONCENTRATES-----	36,432	36,411				21			
1091 NONFERROUS ORES, CONCENT, NEC-----	6,714	1,808	4,906						
1121 COAL AND LIGNITE-----	11,259,423		4,647,602	5,075,901				1,535,920	
1311 CRUDE PETROLEUM-----	60,829	60,829							
1411 LIMESTONE-----	163,668		26,781	65,029	35,886		35,972		
1442 SAND, GRAVEL, CRUSHED ROCK-----	18,605	368				199	18,038		
1451 CLAY-----	22					20	2		
1499 NONMETALLIC MINERALS, NEC-----	797,625	36,264	77,745	428,558			190,196	64,862	
1911 ORDNANCE AND ACCESSORIES-----	2								
2012 MEAT AND PRODUCTS, NEC-----	40	20					20		
2031 FISH AND SMELTFISH, PREPARED-----	71	71							
2034 VEGETABLES AND PREP, NEC-----	154	66				88			
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,791	38				1,158	1,595		
2042 ANIMAL FEEDS-----	889	67				822			
2049 GRAIN MILL PRODUCTS, NEC-----	330	55				162	113		
2061 SUGAR-----	2,260					2,260			
2081 ALCOHOLIC BEVERAGES-----	1,970	313	36			1,356	265		
2091 VEGETABLE OILS, MARG, SHORT-----	335	177				77	81		
2095 ICE-----	159	62				97			
2099 MISCELLANEOUS FOOD PRODUCTS-----	623	400				181	42		
2211 BASIC TEXTILE PRODUCTS-----	11,600	10,746	38			563	253		
2311 APPAREL-----	121	114				7			
2421 LUMBER-----	894	31					863		
2431 VENEER, PLYWOOD, WORKED WOOD-----	297	9				20	268		
2491 WOOD MANUFACTURES, NEC-----	26	24				1	1		
2511 FURNITURE AND FIXTURES-----	749	191	1			521	36		
2611 PULP-----	85,853	83,027				2,826			
2621 STANDARD NEWSPRINT PAPER-----	7,967		1,173				6,794		
2631 PAPER AND PAPERBOARD-----	1,109	370	118			553	68		
2691 PULP AND PAPER PRODUCTS, NEC-----	317	176					77		
2711 PRINTED MATTER-----	121	53				51	17		

## DETROIT, MI, DISTRICT

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DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1967--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE	OTHER
2811 CRUDE TAR, OIL, GAS PRODUCTS---	8,695	1,273	7,233			186	3		
2813 ALCOHOLS---	1,469	47				947	475		
2817 BENZENE AND TOLUENE---	65,695		27,441					38,254	
2819 BASIC CHEMICALS AND PROD, NEC---	10,667	8,132				2,274	261		
2821 PLASTIC MATERIALS---	1,367	485				685	197		
2822 SYNTHETIC RUBBER---	117					117			
2831 DRUGS---	375	155				156	64		
2841 SOAP---	240	134				85	21		
2851 PAINTS---	1,042	359				1,043	40		
2861 GUM AND WOOD CHEMICALS---	20								
2871 NITROGENOUS CHEM FERTILIZERS---	35,093	19,445	15,648						
2872 POTASSIC CHEM FERTILIZERS---	18,300		18,300						
2876 INSECTICIDES, DISINFECTANTS---	64								
2879 FERTILIZER AND MATERIALS, NEC---	8,303	8,267					36		
2891 MISCELLANEOUS CHEMICAL PROD---	3,964	1,081				1,216	1,667		
2911 GASOLINE---	39,171		11,369				24,034	3,768	
2913 KEROSENE---	27,071		6,946				20,125		
2914 DISTILLATE FUEL OIL---	124,190		17,263				5,065	100,238	1,624
2915 RESIDUAL FUEL OIL---	220,404		36,590	8,526				96,410	78,878
2916 LUBRICATING OILS AND GREASES---	55,981		51,688			19	4,274		
2917 NAPHTHA, PETROLEUM SOLVENTS---	2,598		2,598						
2918 ASPHALT, TAR, AND PITCHES---	739								739
2920 COKE, PETROLEUM COKE---	129,679		59,473	50,418			19,788		
2921 LIQUEFIED GASES---	20					20			
2991 PETROLEUM AND COAL PROD, NEC---	27					27			
3011 RUBBER AND MISC PLASTIC PROD---	3,078	824				2,085	169		
3111 LEATHER AND LEATHER PRODUCTS---	282	221				57	4		
3211 GLASS AND GLASS PRODUCTS---	786	479				233	74		
3241 BUILDING CEMENT---	726,750	35,770	519,744			17,777	153,459		
3251 STRUCTURAL CLAY PRODUCTS---	5,116	3,767				1,060	289		
3281 CUT STONE AND STONE PRODUCTS---	1,216	167				979	70		
3291 MISC NONMETALLIC MINERAL PROD---	202	44				148	10		
3311 PIG IRON---	56,387		56,387						
3312 SLAG---	133,379		19,169	26,628				87,582	
3314 IRON AND STEEL PRIMARY FORMS---	149,077	128,936				20,141			
3315 IRON, STEEL SHAPES, EXC SHEET---	1,378,158	903,414				441,635	33,109		
3316 IRON AND STEEL PLATES, SHEETS---	11,545	10,902				643			
3317 IRON AND STEEL PIPE AND TUBE---	27,371	18,906				8,373	92		
3318 FERROALLOYS---	54,286	42,985	3,249			6,272	1,780		
3319 IRON AND STEEL PRODUCTS, NEC---	5,738	4,736				690	312		
3321 NONFERROUS METALS, NEC---	728	195				246	287		
3322 COPPER ALLOYS, UNWORKED---	225	138				87			
3323 LEAD AND ZINC, UNWORKED---	31,091	27,598				3,267	226		
3324 ALUMINUM AND ALLOYS, UNWORKED---	16,650	15,793				828	29		
3411 FABRICATED METAL PRODUCTS---	26,360	21,168				3,631	1,561		
3511 MACHINERY, EXCEPT ELECTRICAL---	23,920	14,984	21			7,514	870		531
3611 ELECTRICAL MACH AND EQUIP---	2,295	1,364	39			571	321		
3711 MOTOR VEHICLES, PARTS, EQUIP---	60,004	524	16,071			1,487	41,922		
3721 AIRCRAFT AND PARTS---	20						20		
3731 SHIPS AND BOATS---	49	18					31		
3791 MISC TRANSPORTATION EQUIPMENT---	420	414				6			
3811 INSTR, TIME, PHOTO, OPT GOODS---	376	48	67			243	18		
3911 MISC MANUFACTURED PRODUCTS---	734	301				409	24		
4011 IRON AND STEEL SCRAP---	552	552							
4012 NONFERROUS METAL SCRAP---	1,145	982				163			
4112 COMMODITIES, NEC---	986	407	11	75		326	167		

DOWNBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE	OTHER
TOTAL-----	44,810,556	3,488,896	6,505,164	24,225,969	800	306,673	273,376	9,997,331	12,347
0102 BARLEY AND RYE-----	481,622	205,045	276,577						
0103 CORN-----	507,011	327,425	179,555				31		
0104 OATS-----	13,534		13,534						
0105 RICE-----	1,592	1,592							
0107 WHEAT-----	2,366,221	1,633,312	143,882	589,021		6			
0111 SOYBEANS-----	382,205	372,515	9,690						
0119 OILSEEDS, NEC-----	134,016	134,016							
0129 FIELD CROPS, NEC-----	8,859	8,859							
0141 FRESH AND FROZEN VEGETABLES---	40,001	39,882				40	79		
0161 ANIMALS AND PRODUCTS, NEC---	8	8							
0911 FRESH FISH, EXCEPT SHELLFISH---	498	498							
1011 IRON ORE AND CONCENTRATES---	24,692,923	174,322	2,686,213	16,576,507				5,255,881	
1121 COAL AND LIGNITE-----	766,279		28,350	737,929					
1311 CRUDE PETROLEUM-----	16,183		16,183						
1411 LIMESTONE-----	9,910,867		1,431,536	5,242,219			25,956	3,211,156	
1442 SAND, GRAVEL, CRUSHED ROCK---	538,876	10,002	368,572	160,302					
1451 CLAY-----	109,921	6,638	103,273			10			
1494 GYPSUM, CRUDE AND PLASTER---	685,144		363,038					322,106	
1499 NONMETALLIC MINERALS, NEC---	268,934	6,745	137,196			20	124,973		
2014 TALLOW, ANIMAL FATS AND OILS---	17,489	10,122				7,367			
2022 DRIED MILK AND CREAM-----	32,614	32,614							
2031 FISH AND SHELLFISH, PREPARED---	129	129							
2034 VEGETABLES AND PREP, NEC-----	2	2							
2041 WHEAT FLOUR AND SEMOLINA-----	26,867	26,867							

## Waterborne Commerce of the United States, 1987

DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC				RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	OTHER	OVERSEAS	CANADIAN	LAKEWISE	OTHER
2042 ANIMAL FEEDS-----	1,483	1,483							
2049 GRAIN MILL PRODUCTS, NEC-----	80,084	79,632				452			
2091 VEGETABLE OILS, MARG, SHORT-----	30,899	30,899							
2099 MISCELLANEOUS FOOD PRODUCTS-----	72,354	72,354							
2211 BASIC TEXTILE PRODUCTS-----	9	3				6			
2311 APPAREL-----	961	961							
2421 LUMBER-----	8,459	1,062	4,608				2,789		
2431 VENEER, PLYWOOD, WORKED WOOD-----	491					43	448		
2511 FURNITURE AND FIXTURES-----	18					18			
2611 PULP-----	7	7							
2621 STANDARD NEWSPRINT PAPER-----	15,498	6	15,492						
2631 PAPER AND PAPERBOARD-----	208	198				10			
2691 PULP AND PAPER PRODUCTS, NEC-----	53	53							
2711 PRINTED MATTER-----	13	3				10			
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	14,938						6,313	8,625	
2812 DYES, PIGMENT, TANNING MATS-----	3	3							
2813 ALCOHOLS-----	1,806	931					875		
2819 BASIC CHEMICALS AND PROD, NEC-----	3,613	3,566				47			
2821 PLASTIC MATERIALS-----	232	173				47	12		
2831 DRUGS-----	65	41				24			
2841 SOAP-----	2,245	2,201				44			
2851 PAINTS-----	7,724	12	7,700			12			
2871 NITROGENOUS CHEM FERTILIZERS-----	28,188		22,594				5,554		
2872 POTASSIC CHEM FERTILIZERS-----	804,359		797,593				6,766		
2876 INSECTICIDES, DISINFECTANTS-----	17	1				16			
2891 MISCELLANEOUS CHEMICAL PROD-----	349	309				40			
2911 GASOLINE-----	126,815		39,530				13,770	73,515	
2912 JET FUEL-----	6,300						6,300		
2914 DISTILLATE FUEL OIL-----	103,383		89,237	2,439			35	11,672	
2915 RESIDUAL FUEL OIL-----	133,777		41,144	6,313			11,327	62,646	12,347
2916 LUBRICATING OILS AND GREASES-----	10	10							
2918 ASPHALT, TAR, AND PITCHES-----	478,771			11,015			15,058	452,698	
2920 COKE, PETROLEUM COKE-----	306,783	158,664	80,597	37,198			30,324		
2991 PETROLEUM AND COAL PROD, NEC-----	7	2				5			
3011 RUBBER AND MISC PLASTIC PROD-----	40	14				26			
3111 LEATHER AND LEATHER PRODUCTS-----	15	15							
3201 BUILDING CEMENT-----	862,355			499,988				362,367	
3251 STRUCTURAL CLAY PRODUCTS-----	19	19							
3291 MISC NONMETALLIC MINERAL PROD-----	36	36							
3312 SLAB-----	236,665							236,665	
3316 IRON AND STEEL PLATES, SHEETS-----	13,760	616				13,144			
3319 IRON AND STEEL PRODUCTS, NEC-----	8,864	22	8,842						
3321 NONFERROUS METALS, NEC-----	348	9	339						
3322 COPPER ALLOYS, UNWORKED-----	1	1							
3324 ALUMINUM AND ALLOYS, UNWORKED-----	79	79							
3411 FABRICATED METAL PRODUCTS-----	6,393	167	2,818			34	3,374		
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,645	2,434	104			84	23		
3611 ELECTRICAL MACH AND EQUIP-----	174	160				14			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	19,517	145				3	19,369		
3731 SHIPS AND BOATS-----	811	6	5		800				
3811 INSTR, TIME, PHOTO, OPT GOODS-----	189	57				132			
3911 MISC MANUFACTURED PRODUCTS-----	9	6				3			
4011 IRON AND STEEL SCRAP-----	426,466	141,450				285,016			
4022 TEXTILE WASTE, SCRAP, SWEEP-----	1	1							
4112 COMMODITIES, NEC-----	490	490							
9999 DEPARTMENT OF DEFENSE AND SCI-----	2	2							

TONS, ALL TRAFFIC, 62,688,583.  
TON-MILES, ALL TRAFFIC, 1,659,972,033.

DETROIT HARBOR, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. BANK OF DETROIT RIVER FROM LAKE ST. CLAIR TO WESTERN EXTREME OF ZUG ISLAND, CONTROLLING DEPTH: CHANNEL NORTH OF BELLE ISLE 21 FEET, REMAINDER OF RIVER 25-26.5 FEET, PROJECT DEPTH: 28.5 FEET EXCEPT CHANNEL NORTH OF BELLE ISLE, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	9,005,915	866,866	1983-----	5,015,656	879,186
1979-----	8,316,331	831,860	1984-----	5,530,227	1,448,992
1980-----	5,894,627	484,708	1985-----	5,040,518	1,047,594
1981-----	5,143,155	356,694	1986-----	5,083,799	977,736
1982-----	4,322,608	369,388	1987-----	5,073,365	

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN						DOMESTIC LAKEWISE		LOCAL
		OVERSEAS		CANADIAN		COASTWISE		RECEIPTS	SHIPMENTS	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS				
TOTAL-----	5,073,365	386,971	177,812	428,269	31,898	531	3,973,805	15,845	50,144	
0103 CORN-----	31	-----	-----	-----	31	-----	-----	-----	-----	
0107 WHEAT-----	6	-----	6	-----	-----	-----	-----	-----	-----	

## DETROIT, MI, DISTRICT

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DETROIT HARBOR, MICH. (INCLUDED IN PORT OF DETROIT)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		LOCAL
		OVERSEAS		CANADIAN		COASTWISE	LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	RECEIPTS	
0129 FIELD CROPS, NEC-----	22	22						
0133 COFFEE-----	8	1		7				
0141 FRESH AND FROZEN VEGETABLES-----	129	10	40		79			
0161 ANIMALS AND PRODUCTS, NEC-----	127	115		12				
0191 MISCELLANEOUS FARM PRODUCTS-----	5			5				
0841 CRUDE RUBBER AND ALLIED GUMS-----	60	60						
0861 FOREST PRODUCTS, NEC-----	64	64						
1011 IRON ORE AND CONCENTRATES-----	2,402,481	77,919		81,649		2,242,913		
1051 ALUMINUM ORES, CONCENTRATES-----	21	21						
1121 COAL AND LIGNITE-----	722,722					722,722		
1411 LIMESTONE-----	575,016					575,016		
1442 SAND, GRAVEL, CRUSHED ROCK-----	3,506			3,506				
1451 CLAY-----	32	20	10	2				
1499 NONMETALLIC MINERALS, NEC-----	118,208		20	104,383		13,805		
1911 ORDNANCE AND ACCESSORIES-----	2			2				
2012 MEAT AND PRODUCTS, NEC-----	20			20				
2014 TALLOW, ANIMAL FATS AND OILS-----	7,367		7,367					
2034 VEGETABLES AND PREP, NEC-----	88	88						
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,733	1,138		1,595				
2042 ANIMAL FEEDS-----	822	822						
2049 GRAIN MILL PRODUCTS, NEC-----	710	145	452	113				
2081 ALCOHOLIC BEVERAGES-----	1,253	1,004		249				
2091 VEGETABLE OILS, MARG, SHORT-----	158	77		81				
2095 ICE-----	97	97						
2099 MISCELLANEOUS FOOD PRODUCTS-----	223	181		42				
2211 BASIC TEXTILE PRODUCTS-----	808	549	6	253				
2311 APPAREL-----	7	7						
2421 LUMBER-----	3,652			3,652				
2431 VENEER, PLYWOOD, WORKED WOOD-----	760	1	43	716				
2491 WOOD MANUFACTURES, NEC-----	2	1		1				
2511 FURNITURE AND FIXTURES-----	475	421	18	36				
2611 PULP-----	2,826	2,826						
2621 STANDARD NEWSPRINT PAPER-----	6,794			6,794				
2631 PAPER AND PAPERBOARD-----	458	380	10	68				
2691 PULP AND PAPER PRODUCTS, NEC-----	121	44		77				
2711 PRINTED MATTER-----	78	51	10	17				
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,710	186		3			5,521	
2813 ALCOHOLS-----	1,913	755		1,158				
2819 BASIC CHEMICALS AND PROD, NEC-----	2,554	2,256	47	251				
2821 PLASTIC MATERIALS-----	717	461	47	197	12			
2822 SYNTHETIC RUBBER-----	117	117						
2831 DRUGS-----	244	156	24	64				
2841 SOAP-----	150	85	44	21				
2851 PAINTS-----	1,090	1,038	12	40				
2876 INSECTICIDES, DISINFECTANTS-----	80	64	16					
2879 FERTILIZER AND MATERIALS, NEC-----	36			36				
2891 MISCELLANEOUS CHEMICAL PROD-----	2,829	1,145	40	1,644				
2911 GASOLINE-----	7,273			7,273				
2914 DISTILLATE FUEL OIL-----	3,671			3,636	35			
2915 RESIDUAL FUEL OIL-----	77,570			9,841			10,324	57,405
2916 LUBRICATING OILS AND GREASES-----	1,283	18		38	1,227			
2918 ASPHALT, TAR, AND PITCHES-----	6,124			5,385				739
2920 COKE, PETROLEUM COKE-----	30,910			19,788	11,122			
2921 LIQUEFIED GASES-----	20	20						
2991 PETROLEUM AND COAL PROD, NEC-----	32	27	5					
3011 RUBBER AND MISC PLASTIC PROD-----	1,306	1,123	24	159				
3111 LEATHER AND LEATHER PRODUCTS-----	57	57						
3211 GLASS AND GLASS PRODUCTS-----	290	233		57				
3241 BUILDING CEMENT-----	501,105			138,738		362,367		
3251 STRUCTURAL CLAY PRODUCTS-----	1,278	1,037		241				
3281 CUT STONE AND STONE PRODUCTS-----	941	871		70				
3291 MISC NONMETALLIC MINERAL PROD-----	142	132		10				
3312 SLAG-----	57,072					57,072		
3314 IRON AND STEEL PRIMARY FORMS-----	14,632	14,632						
3315 IRON, STEEL SHAPES, EXC SHEET-----	294,738	264,939		29,819				
3316 IRON AND STEEL PLATES, SHEETS-----	12,758		12,758					
3317 IRON AND STEEL PIPE AND TUBE-----	2,465	2,373		92				
3318 FERROALLOYS-----	80			80				
3319 IRON AND STEEL PRODUCTS, NEC-----	855	543		312				
3321 NONFERROUS METALS, NEC-----	527	240		287				
3322 COPPER ALLOYS, UNWORKED-----	67	67						
3323 LEAD AND ZINC, UNWORKED-----	447	221		226				
3324 ALUMINUM AND ALLOYS, UNWORKED-----	444	444		20				
3411 FABRICATED METAL PRODUCTS-----	3,284	1,796	21	1,467				
3411 MACHINERY, EXCEPT ELECTRICAL-----	5,139	3,691	84	810	23	531		
3411 ELECTRICAL MACH AND EQUIP-----	739	407	11	321				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	23,019	990	3	2,657	19,369			
3721 AIRCRAFT AND PARTS-----	20			20				
3731 SHIPS AND BOATS-----	31			31				
3791 MISC TRANSPORTATION EQUIPMENT-----	6	6						
3811 INSTR, TIME, PHOTO, OPT GOODS-----	216	71	132	13				
3911 MISC MANUFACTURED PRODUCTS-----	415	395	3	17				
4011 IRON AND STEEL SCRAP-----	156,559		156,559					
4012 NONFERROUS METAL SCRAP-----	18	18						
4112 COMMODITIES, NEC-----	460	293		167				

## ROUSE RIVER, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: FROM THE MOUTH OF THE SHORT CUT CANAL TO THE FORD MOTOR COMPANY, CONTROLLING DEPTHS: 20 FEET FOR A MINIMUM WIDTH OF 100 FEET FROM THE MOUTH OF THE SHORT CUT TO DIX AVENUE BRIDGE, WITH THE EXCEPTION OF SOME SHOAL AREAS, AND 20 FEET IN THE TURNING BASIN, EXCEPT NEAR THE SHORE, PROJECT DEPTHS: 21.0 AND 25 FEET FROM MOUTH OF SHORT CUT CANAL TO POINT 200 FEET DOWNSTREAM OF THE JEFFERSON AVENUE BRIDGE; THENCE 21 FEET TO AND INCLUDING THE TURNING BASIN IN MAIN CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	11,499,251	1983-----	8,032,520
1979-----	12,492,058	1984-----	9,127,312
1980-----	10,277,336	1985-----	8,728,715
1981-----	9,633,840	1986-----	8,190,622
1982-----	7,466,839	1987-----	7,161,701

## FREIGHT TRAFFIC, 1987

## (SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		LOCAL
		OVERSEAS		CANADIAN		LAKEWISE		
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	7,161,701	123,157	111,514	367,554	136,156	5,762,961	597,459	62,900
1011 IRON ORE AND CONCENTRATES-----	1,762,261	-----	-----	109,727	-----	1,652,534	-----	-----
1121 COAL AND LIGNITE-----	711,456	-----	-----	-----	-----	711,456	-----	-----
1411 LIMESTONE-----	2,678,634	-----	-----	-----	61,928	2,616,706	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	14,731	199	-----	14,532	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	322,106	-----	-----	-----	-----	322,106	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	261,843	-----	-----	210,786	-----	51,057	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	20	20	-----	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	17	17	-----	-----	-----	-----	-----	-----
2061 SUGAR-----	2,260	2,260	-----	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	368	352	-----	16	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	14	14	-----	-----	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	19	19	-----	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	49	49	-----	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	173	173	-----	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	20	20	-----	-----	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	9,417	-----	-----	-----	6,313	-----	3,104	-----
2813 ALCOHOLS-----	363	171	-----	192	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	38,254	-----	-----	-----	-----	-----	38,254	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	28	18	-----	-----	10	-----	-----	-----
2921 PLASTIC MATERIALS-----	224	224	-----	-----	-----	-----	-----	-----
2951 PAINTS-----	5	5	-----	-----	-----	-----	-----	-----
2971 NITROGENOUS CHEM FERTILIZERS-----	5,554	-----	-----	5,554	-----	-----	-----	-----
2972 POTASSIC CHEM FERTILIZERS-----	6,766	-----	-----	6,766	-----	-----	-----	-----
2991 MISCELLANEOUS CHEMICAL PROD-----	75	52	-----	23	-----	-----	-----	-----
2911 GASOLINE-----	13,364	-----	-----	-----	9,596	-----	3,768	-----
2912 JET FUEL-----	6,300	-----	-----	-----	6,300	-----	-----	-----
2913 KEROSENE-----	20,125	-----	-----	-----	20,125	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	105,977	-----	-----	1,429	-----	-----	102,924	1,624
2915 RESIDUAL FUEL OIL-----	200,661	-----	-----	1,486	-----	56,421	82,217	60,537
2916 LUBRICATING OILS AND GREASES-----	3,010	1	-----	-----	3,009	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	463,110	-----	-----	-----	9,673	145,635	307,063	739
2920 COKE, PETROLEUM COKE-----	19,202	-----	-----	-----	19,202	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	888	878	-----	10	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	4	-----	-----	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	17	-----	-----	17	-----	-----	-----	-----
3241 BUILDING CEMENT-----	32,498	17,777	-----	14,721	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	71	23	-----	48	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	108	108	-----	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	15	15	-----	-----	-----	-----	-----	-----
3312 SLAG-----	267,175	-----	-----	-----	-----	207,046	60,129	-----
3314 IRON AND STEEL PRIMARY FORMS-----	144	144	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	88,060	88,060	-----	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	643	643	-----	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	1,336	1,336	-----	-----	-----	-----	-----	-----
3318 FERROALLOYS-----	7,972	6,272	-----	1,700	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	46	46	-----	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	6	6	-----	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	20	20	-----	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	3,046	3,046	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	139	130	-----	9	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	308	214	-----	94	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	598	564	-----	34	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	38	38	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	452	58	-----	394	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	5	-----	-----	5	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	14	7	-----	7	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	111,514	-----	111,514	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	145	145	-----	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	33	33	-----	-----	-----	-----	-----	-----

## DETROIT, MI, DISTRICT

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TRENTON, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM FOOT OF SIBLEY ROAD TO FOOT OF PARKWAY DRIVE, CONTROLLING AND PROJECT DEPTHS: 20 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	3,704,651	1983-----	1,395,546
1979-----	3,615,549	1984-----	2,083,602
1980-----	2,652,790	1985-----	1,298,067
1981-----	2,569,700	1986-----	1,346,393
1982-----	1,105,440	1987-----	1,676,608

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISSE	
		IMPORTS	IMPORTS	EXPORTS	RECEIPTS SHIPMENTS
TOTAL-----	1,676,608	704	85,781	35,537	1,472,085 82,501
0161 ANIMALS AND PRODUCTS, NEC-----	15	15			
1011 IRON ORE AND CONCENTRATES-----	1,540,919		78,423	21,099	1,441,397
1121 COAL AND LIGNITE-----	11,254				11,254
1411 LIMESTONE-----	19,434				19,434
2813 ALCOHOLS-----	21	21			
2891 MISCELLANEOUS CHEMICAL PROD-----	19	19			
2911 GASOLINE-----	94,450		6,497	14,438	73,515
2914 DISTILLATE FUEL OIL-----	8,986				8,986
3011 RUBBER AND MISC PLASTIC PROD-----	8	8			
3314 IRON AND STEEL PRIMARY FORMS-----	548	548			
3319 IRON AND STEEL PRODUCTS, NEC-----	20				
3411 FABRICATED METAL PRODUCTS-----	876	15	861		
3511 MACHINERY, EXCEPT ELECTRICAL-----	51	51			
3611 ELECTRICAL MACH AND EQUIP-----	6	6			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1	1			

## PORT OF DETROIT, MICH.

SECTION INCLUDED: DETROIT HARBOR, ROUGE RIVER, ECORSE, WYANDOTTE, RIVERVIEW AND TRENTON. CONTROLLING AND PROJECT DEPTHS: SEE AFOREMENTIONED PROJECTS.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	25,881,508	866,866	1983-----	14,955,003	879,146
1979-----	24,995,987	831,860	1984-----	17,530,626	1,617,966
1980-----	19,268,443	484,708	1985-----	15,612,344	1,219,480
1981-----	17,839,139	356,694	1986-----	15,219,322	977,736
1982-----	13,176,099	369,388	1987-----	14,129,844	

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		CANADIAN		COASTWISE		DOMESTIC LAKEWISSE		LOCAL
		OVERSEAS		IMPORTS	EXPORTS	RECEIPTS		RECEIPTS	SHIPMENTS	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS		RECEIPTS	SHIPMENTS	
TOTAL-----	14,129,844	614,963	306,673	887,433	221,328	531	11,307,029	698,299		93,588
0103 CORN-----	31				31					
0107 WHEAT-----	6		6							
0129 FIELD CROPS, NEC-----	22	22								
0133 COFFEE-----	8	1		7						
0141 FRESH AND FROZEN VEGETABLES-----	129	10	40		79					
0161 ANIMALS AND PRODUCTS, NEC-----	142	130		12						
0191 MISCELLANEOUS FARM PRODUCTS-----	5			5						
0841 CRUDE RUBBER AND ALLIED GUMS-----	60	60								
0861 FOREST PRODUCTS, NEC-----	64	64								
1011 IRON ORE AND CONCENTRATES-----	5,684,562	77,919		269,799			5,336,844			
1051 ALUMINUM ORES, CONCENTRATES-----	21	21								
1121 COAL AND LIGNITE-----	1,535,920						1,535,920			
1411 LIMESTONE-----	3,273,084				61,920		3,211,156			
1442 SAND, GRAVEL, CRUSHED ROCK-----	18,237	199		18,038						
1451 CLAY-----	32	20	10	2						
1494 GYPSUM, CRUDE AND PLASTERS-----	322,106						322,106			
1499 NONMETALLIC MINERALS, NEC-----	380,051		20	315,169			64,862			
1911 ORDNANCE AND ACCESSORIES-----	2			2						
2012 MEAT AND PRODUCTS, NEC-----	20			20						
2014 TALLOW, ANIMAL FATS AND OILS-----	7,367		7,367							
2034 VEGETABLES AND PREP, NEC-----	88	88								
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,753	1,158		1,595						
2042 ANIMAL FEEDS-----	822									
2049 GRAIN MILL PRODUCTS, NEC-----	727	162	452	113						
2061 SUGAR-----	2,260	2,260								
2081 ALCOHOLIC BEVERAGES-----	1,621	1,356		265						
2091 VEGETABLE OILS, MARG, SHORT-----	158	77		81						
2095 ICE-----	97	97								
2099 MISCELLANEOUS FOOD PRODUCTS-----	223	181	42							



## PORT OF DETROIT, MICH.--CONTINUED

## FREIGHT TRAFFIC- 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			LOCAL
		OVERSEAS		CANADIAN		COASTWISE	LAKEWISE		
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	RECEIPTS	SHIPMENTS	
2211 BASIC TEXTILE PRODUCTS-----	822	563	6	253					
2311 APPAREL-----	7	7							
2421 LUMBER-----	3,652			3,652					
2431 VENEER, PLYWOOD, WORKED WOOD---	779	20	43	716					
2491 WOOD MANUFACTURES, NEC-----	2	1		1					
2511 FURNITURE AND FIXTURES-----	575	521	18	36					
2611 PULP-----	2,826	2,826							
2621 STANDARD NEWSPRINT PAPER-----	6,794			6,794					
2631 PAPER AND PAPERBOARD-----	631	553	10	68					
2691 PULP AND PAPER PRODUCTS, NEC---	141	64		77					
2711 PRINTED MATTER-----	78	51	10	17					
2811 CRUDE TAR, OIL, GAS PRODUCTS---	15,127	186		3	6,313			8,625	
2813 ALCOHOLS-----	2,297	947		1,350					
2817 BENZENE AND TOLUENE-----	38,254							38,254	
2819 BASIC CHEMICALS AND PROD, NEC---	2,582	2,274	47	251	10				
2821 PLASTIC MATERIALS-----	941	685	47	197	12				
2822 SYNTHETIC RUBBER-----	117	117							
2831 DRUGS-----	244	156	24	64					
2841 SOAP-----	150	85	44	21					
2851 PAINTS-----	1,095	1,043	12	40					
2871 NITROGENOUS CHEM FERTILIZERS---	5,554			5,554					
2872 POTASSIC CHEM FERTILIZERS-----	6,766			6,766					
2876 INSECTICIDES, DISINFECTANTS---	80	64	16						
2879 FERTILIZER AND MATERIALS, NEC---	36			36					
2891 MISCELLANEOUS CHEMICAL PROD-----	2,923	1,216	40	1,667					
2911 GASOLINE-----	115,087			13,770	24,038			77,283	
2912 JET FUEL-----	6,300				6,300				
2913 KEROSENE-----	20,125				20,125				
2914 DISTILLATE FUEL OIL-----	118,599			5,065				111,910	1,624
2915 RESIDUAL FUEL OIL-----	261,608			11,327			64,021	95,035	91,225
2916 LUBRICATING OILS AND GREASES---	4,293	19		38	4,236				
2918 ASPHALT, TAR, AND PITCHES-----	468,495			5,385	9,673		145,635	307,063	739
2920 COKE, PETROLEUM COKE-----	50,112			19,788	30,324				
2921 LIQUEFIED GASES-----	20	20							
2991 PETROLEUM AND COAL PROD, NEC---	32	27	5						
3011 RUBBER AND MISC PLASTIC PROD---	2,280	2,085	26	169					
3111 LEATHER AND LEATHER PRODUCTS---	61	57	4						
3211 GLASS AND GLASS PRODUCTS-----	307	233		74					
3241 BUILDING CEMENT-----	533,603	17,777		153,459			362,367		
3251 STRUCTURAL CLAY PRODUCTS-----	1,349	1,060		289					
3281 CUT STONE AND STONE PRODUCTS---	1,049	979		70					
3291 MISC NONMETALLIC MINERAL PROD---	158	148		10					
3312 SLAG-----	324,247						264,118	60,129	
3314 IRON AND STEEL PRIMARY FORMS---	20,141	20,141							
3315 IRON, STEEL SHAPES, EXC SHEET---	474,744	441,635		33,109					
3316 IRON AND STEEL PLATES, SHEETS---	13,787	643	13,144						
3317 IRON AND STEEL PIPE AND TUBE---	8,465	8,373		92					
3318 FERROALLOYS-----	8,052	6,272		1,780					
3319 IRON AND STEEL PRODUCTS, NEC---	1,002	690		312					
3321 NONFERROUS METALS, NEC-----	533	246		287					
3322 COPPER ALLOYS, UNWORKED-----	87	87							
3323 LEAD AND ZINC, UNWORKED-----	3,493	3,267		226					
3324 ALUMINUM AND ALLOYS, UNWORKED---	857	828		29					
3411 FABRICATED METAL PRODUCTS-----	8,600	3,631	34	4,935					
3511 MACHINERY, EXCEPT ELECTRICAL---	9,022	7,514	84	870	23	531			
3611 ELECTRICAL MACH AND EQUIP-----	906	571	14	321					
3711 MOTOR VEHICLES, PARTS, EQUIP---	62,781	1,487	3	3,051	58,240				
3721 AIRCRAFT AND PARTS-----	20			20					
3731 SHIPS AND BOATS-----	31			31					
3791 MISC TRANSPORTATION EQUIPMENT---	6	6							
3811 INSTR, TIME, PHOTO, OPT GOODS---	393	243	132	18					
3911 MISC MANUFACTURED PRODUCTS---	436	409	3	24					
4011 IRON AND STEEL SCRAP-----	285,016		285,016						
4012 NONFERROUS METAL SCRAP-----	163	163							
4112 COMMODITIES, NEC-----	493	326		167					

## MONROE HARBOR, MICH.

SECTION INCLUDED: CHANNEL IN LAKE ERIE AND 12,300 FEET ABOVE RAISIN RIVER. CONTROLLING DEPTH: 20 FEET TO TURNING BASIN OVER A CENTER WIDTH OF 150 FEET; 12 FEET IN TURNING BASIN EXCEPT NEAR THE SHORE; 5.5 FEET IN 9 FOOT CHANNEL. PROJECT DEPTH: 21 FEET TO THE TURNING BASIN; 18 FEET IN THE TURNING BASIN; 9 FEET TO LOWER DOCKS AT MONROE. NAVIGATION SEASON: APPROXIMATELY 20 APRIL TO 14 DECEMBER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	2,374,166	-----	1983-----	2,569,992	-----
1979-----	2,662,768	-----	1984-----	2,398,780	-----
1980-----	2,768,541	-----	1985-----	792,884	-----
1981-----	2,781,958	-----	1986-----	622,757	-----
1982-----	2,401,441	-----	1987-----	1,177,893	-----

DETROIT, MI, DISTRICT

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MONROE HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		IMPORTS	IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	1,177,883	75,522	35,667	16,018	1,050,676
1121 COAL AND LIGNITE-----	1,013,478	-----	-----	-----	1,013,478
2421 LUMBER-----	7,851	-----	7,851	-----	-----
2920 COKE, PETROLEUM COKE-----	37,198	-----	-----	-----	37,198
3241 BUILDING CEMENT-----	100,516	75,516	25,000	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2,816	-----	2,816	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	16,018	-----	-----	16,018	-----
3731 SHIPS AND BOATS-----	6	6	-----	-----	-----

## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT			
ALGOMA HARBOR, WIS.,-----	NO COMMERCE REPORTED		
ALGONAC, MICH. (INCLUDED IN ST. CLAIR RIVER)-----			13,747
AU SABLE HARBOR AND RIVER (OSCODA), MICH.,-----	NO COMMERCE REPORTED		
BIG BAY HARBOR, MICH.,-----	NO COMMERCE REPORTED		
BLACK RIVER HARBOR, MICH.,-----	NO COMMERCE REPORTED		
CASEVILLE, MICH.,-----	NO COMMERCE REPORTED		
CEDAR RIVER HARBOR, MICH.,-----	NO COMMERCE REPORTED		
CHARLEVOIX HARBOR, MICH.,-----	1121 COAL AND LIGNITE-----	101,180	
	1411 LIMESTONE-----	21,959	
	4112 COMMODITIES, NEC-----	3,398	
	TOTAL-----	126,537	15,955
CHEBOYGAN HARBOR, MICH.,-----	1121 COAL AND LIGNITE-----	15,309	
	1411 LIMESTONE-----	13,019	
	2911 GASOLINE-----	81,042	
	2914 DISTILLATE FUEL OIL-----	27,432	
	2915 RESIDUAL FUEL OIL-----	5,242	
	TOTAL-----	142,044	17,626
DETOUR, MICH., AND VICINITY (INCLUDED IN ST. MARYS RIVER)-----			235,236
DETROIT HARBOR, WIS.,-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	173	
	2414 TIMBER, POSTS, POLES, PILING-----	2,660	
	2911 GASOLINE-----	1,050	
	2914 DISTILLATE FUEL OIL-----	942	
	2918 ASPHALT, TAR, AND PITCHES-----	198	
	2921 LIQUEFIED GASES-----	74	
	4112 COMMODITIES, NEC-----	3,844	
	TOTAL-----	8,961	200,776
EAGLE HARBOR, MICH.,-----	NO COMMERCE REPORTED		
ECORSE, MICH. (INCLUDED IN PORT OF DETROIT)-----	2511 FURNITURE AND FIXTURES-----	51	
	2915 RESIDUAL FUEL OIL-----	58,107	
	3011 RUBBER AND MISC PLASTIC PROD-----	78	
	3291 MISC NONMETALLIC MINERAL PROD-----	1	
	3314 IRON AND STEEL PRIMARY FORMS-----	4,817	
	3315 IRON, STEEL SHAPES, EXC SHEET-----	91,926	
	3316 IRON AND STEEL PLATES, SHEETS-----	386	
	3317 IRON AND STEEL PIPE AND TUBE-----	4,664	
	3319 IRON AND STEEL PRODUCTS, NEC-----	81	
	3324 ALUMINUM AND ALLOYS, UNWORKED-----	254	
	3411 FABRICATED METAL PRODUCTS-----	4,132	
	3511 MACHINERY, EXCEPT ELECTRICAL-----	3,234	
	3611 ELECTRICAL MACH AND EQUIP-----	123	
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	438	
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	172	
	3911 MISC MANUFACTURED PRODUCTS-----	7	
	4011 IRON AND STEEL SCRAP-----	16,943	
	TOTAL-----	185,414	
FRANKFORT HARBOR, MICH.,-----	2918 ASPHALT, TAR, AND PITCHES-----	62,861	
GLADSTONE HARBOR, MICH.,-----	1121 COAL AND LIGNITE-----	39,283	
	2918 ASPHALT, TAR, AND PITCHES-----	12,509	
	TOTAL-----	51,792	
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MICH.,-----	NO COMMERCE REPORTED		
GRAND TRAVERSE BAY HARBOR, MICH.,-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	7	
HARBOR BEACH, MICH., HARBOR OF REFUGE, LAKE MURON-----	1121 COAL AND LIGNITE-----	102,278	
HARRISVILLE HARBOR, MICH., HARBOR OF REFUGE, LAKE MURON-----	NO COMMERCE REPORTED		
KENOSHA HARBOR, WIS.,-----	0141 FRESH AND FROZEN VEGETABLES-----	2,008	
	1411 LIMESTONE-----	40,387	
	2049 GRAIN MILL PRODUCTS, NEC-----	4,515	
	2091 VEGETABLE OILS, MARG, SHORT-----	2,227	
	2099 MISCELLANEOUS FOOD PRODUCTS-----	6,773	
	2511 FURNITURE AND FIXTURES-----	3	
	2991 PETROLEUM AND COAL PROD, NEC-----	2	
	3011 RUBBER AND MISC PLASTIC PROD-----	3	
	3411 FABRICATED METAL PRODUCTS-----	1	
	3511 MACHINERY, EXCEPT ELECTRICAL-----	4	
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	
	4112 COMMODITIES, NEC-----	7	
	TOTAL-----	55,932	
KENAUWEE HARBOR, WIS.,-----	0141 FRESH AND FROZEN VEGETABLES-----	927	
	1121 COAL AND LIGNITE-----	63	
	1411 LIMESTONE-----	6,068	
	1442 SAND, GRAVEL, CRUSHED ROCK-----	4,844	
	1451 CLAY-----	25,602	
	1499 NONMETALLIC MINERALS, NEC-----	5,781	
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1,849	
	2021 DAIRY PRODUCTS, NEC-----	1,077	

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT--CONTINUED			
KENAUWEE HARBOR, WIS. (CONTINUED)-----	2034 VEGETABLES AND PREP, NEC-----	897	-----
	2042 ANIMAL FEEDS-----	2,811	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	2,377	-----
	2421 LUMBER-----	15,408	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	3,367	-----
	2491 WOOD MANUFACTURES, NEC-----	1,012	-----
	2611 PULP-----	23,471	-----
	2621 STANDARD NEWSPRINT PAPER-----	21,279	-----
	2631 PAPER AND PAPERBOARD-----	84,099	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	16,193	-----
	2861 GUM AND WOOD CHEMICALS-----	5,085	-----
	2914 DISTILLATE FUEL OIL-----	96	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	11,899	-----
	3241 BUILDING CEMENT-----	6,300	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	1,041	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	27	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	148	-----
	3411 FABRICATED METAL PRODUCTS-----	97	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	85	-----
	TOTAL-----	241,903	84,599
Keweenaw Waterway, Mich.-----	0911 FRESH FISH, EXCEPT SMELLFISH-----	68	-----
	1121 COAL AND LIGNITE-----	54,563	-----
	1499 NONMETALLIC MINERALS, NEC-----	14,646	-----
	4110 WATERWAY IMPROVEMENT MAT-----	39,153	-----
	TOTAL-----	107,430	7,757
LAC LA BELLE HARBOR, MICH.-----	NO COMMERCE REPORTED		
LELAND HARBOR, MICH.-----	NO COMMERCE REPORTED		
LIME ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)-----	NO COMMERCE REPORTED		
MACKINAC HARBOR, MICH.-----	1411 LIMESTONE-----	12,549	-----
	4112 COMMODITIES, NEC-----	11,908	-----
	TOTAL-----	24,457	995,331
MACKINAW CITY HARBOR, MICH.-----	2911 GASOLINE-----	129,302	-----
	2913 KEROSENE-----	1,015	-----
	2914 DISTILLATE FUEL OIL-----	36,984	-----
	TOTAL-----	167,301	350,030
MANISTEE HARBOR, MICH.-----	1121 COAL AND LIGNITE-----	192,640	-----
	1411 LIMESTONE-----	48,635	-----
	TOTAL-----	241,275	-----
MANISTIQUE HARBOR, MICH.-----	1121 COAL AND LIGNITE-----	28,174	-----
MANITOWOC HARBOR, WIS.-----	1121 COAL AND LIGNITE-----	44,162	-----
	3241 BUILDING CEMENT-----	132,079	-----
	TOTAL-----	176,241	-----
MEMPHIS HARBOR AND RIVER, MICH. AND WIS.-----	1121 COAL AND LIGNITE-----	46,090	-----
	1411 LIMESTONE-----	6,306	-----
	1499 NONMETALLIC MINERALS, NEC-----	34,229	-----
	3311 PIG IRON-----	2,597	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	2,316	-----
	TOTAL-----	91,538	-----
NEW BUFFALO HARBOR MICHIGAN-----	NO COMMERCE REPORTED		
ONONTO HARBOR, WIS.-----	NO COMMERCE REPORTED		
PENSAUKEE HARBOR, WIS.-----	NO COMMERCE REPORTED		
PENTWATER HARBOR, MICH.-----	NO COMMERCE REPORTED		
PORT SANILAC HARBOR, MICH.-----	NO COMMERCE REPORTED		
PORT WASHINGTON HARBOR, WIS.-----	1121 COAL AND LIGNITE-----	127,370	-----
PUT-IN-BAY HARBOR, OHIO-----	1412 BUILDING STONE, UNWORKED-----	267	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	394	-----
	2913 KEROSENE-----	8	-----
	2918 ASPHALT, TAR, AND PITCHES-----	5	-----
	2921 LIQUEFIED GASES-----	400	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	27	-----
	4112 COMMODITIES, NEC-----	10,660	-----
	TOTAL-----	11,761	584,552
RACINE HARBOR, WIS.-----	NO COMMERCE REPORTED		
ROGERS CITY, MICH.-----	NO COMMERCE REPORTED		
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MICH.-----			23,476
SAULT STE. MARIE, MICH. (INCLUDED IN ST. MARYS RIVER)-----	1121 COAL AND LIGNITE-----	6,165	-----
	1411 LIMESTONE-----	47,748	-----
	1499 NONMETALLIC MINERALS, NEC-----	7,865	-----
	2034 VEGETABLES AND PREP, NEC-----	2	-----
	2631 PAPER AND PAPERBOARD-----	7	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----

## Waterborne Commerce of the United States, 1987

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT--CONTINUED			
SAULT STE. MARIE, MICH. (INCLUDED IN ST. MARYS RIVER) (CONTINUED)-----	2831 DRUGS-----	37	-----
	2874 INSECTICIDES, DISINFECTANTS-----	1	-----
	3322 COPPER ALLOYS, UNWORKED-----	1	-----
	3411 FABRICATED METAL PRODUCTS-----	19	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	20	-----
	3611 ELECTRICAL MACH AND EQUIP-----	18	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	9	-----
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	17	-----
	TOTAL-----	61,913	609,913
SEBENAING, MICH.-----	NO COMMERCE REPORTED		
SOUTH HAVEN HARBOR, MICH.-----	NO COMMERCE REPORTED		
ST. JAMES (BEAVER ISLAND), MICH.-----	4112 COMMODITIES, NEC-----	3,398	15,955
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WIS.-----	2918 ASPHALT, TAR, AND PITCHES-----	37,652	-----
	3241 BUILDING CEMENT-----	16,229	-----
	TOTAL-----	53,881	-----
TWO RIVERS HARBOR, WIS.-----	2871 NITROGENOUS CHEM FERTILIZERS-----	8,942	-----
WHITE LAKE HARBOR, MICH.-----	1411 LIMESTONE-----	13,536	-----
WHITEFISH POINT HARBOR, MICH.-----	NO COMMERCE REPORTED		
WYANDOTTE, MICH. (INCLUDED IN PORT OF DETROIT)-----	1121 COAL AND LIGNITE-----	90,488	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	38,871	-----
	TOTAL-----	129,359	-----
NONPROJECT			
ALABASTER, MICH.-----	1411 LIMESTONE-----	12,857	-----
	1499 GYPSUM, CRUDE AND PLASTERS-----	629,375	-----
	TOTAL-----	642,232	-----
CALCITE, MICH.-----	1011 IRON ORE AND CONCENTRATES-----	29,267	-----
	1411 LIMESTONE-----	8,130,025	-----
	TOTAL-----	8,159,292	-----
ESCANABA, MICH.-----	1011 IRON ORE AND CONCENTRATES-----	5,721,296	-----
	1121 COAL AND LIGNITE-----	233,595	-----
	1411 LIMESTONE-----	17,080	-----
	1499 NONMETALLIC MINERALS, NEC-----	19,944	-----
	2810 SODIUM HYDROXIDE-----	9,973	-----
	2911 GASOLINE-----	70,476	-----
	2914 DISTILLATE FUEL OIL-----	40,548	-----
	3611 ELECTRICAL MACH AND EQUIP-----	7	-----
	TOTAL-----	8,112,919	-----
MARBLEHEAD, OHIO-----	1411 LIMESTONE-----	1,098,332	196,786
PORT DOLOMITE, MICH.-----	1121 COAL AND LIGNITE-----	7,922	-----
	1411 LIMESTONE-----	2,839,980	-----
	4118 WATERWAY IMPROVEMENT MAT-----	8,426	-----
	TOTAL-----	2,856,328	-----
PORT GYPSUM, MICH.-----	1499 GYPSUM, CRUDE AND PLASTERS-----	430,751	-----
PORT INLAND, MICH.-----	1411 LIMESTONE-----	3,143,667	-----
	4118 WATERWAY IMPROVEMENT MAT-----	29,727	-----
	TOTAL-----	3,173,394	-----
STONEPORT, MICH.-----	1011 IRON ORE AND CONCENTRATES-----	148,441	-----
	1411 LIMESTONE-----	7,906,070	-----
	1402 SAND, GRAVEL, CRUSHED ROCK-----	27,517	-----
	3241 BUILDING CEMENT-----	103,971	-----
	TOTAL-----	8,185,999	-----

# BUFFALO, NY, DISTRICT

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## TOLEDO HARBOR, OHIO

SECTION INCLUDED: CHANNEL IN LAKE ERIE AND 7 MILES IN LOWER MAUMEE RIVER, CONTROLLING DEPTHS: 28 FEET IN THE BAY CHANNEL; 27 FEET IN THE RIVER CHANNEL TO THE TURNING BASIN OPPOSITE THE MID-STATES TERMINALS, INC. DOCK; THENCE 14 FEET TO THE TURNING BASIN AT THE UPPER PROJECT LIMITS WITH 13 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN THE TURNING BASIN AT MILE 6.5, PROJECT DEPTHS: 26 FEET IN BAY AND 27 FEET IN THE RIVER CHANNEL TO THE TURNING BASIN OPPOSITE THE MID-STATES TERMINALS, INC. DOCK; THENCE 25 FEET TO THE TURNING BASIN AT UPSTREAM LIMITS OF THE PROJECT WITH 18 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN TURNING BASIN AT MILE 6.5. NAVIGATION SEASON: APPROXIMATELY MARCH 1 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	27,571,418	10,820	1983-----	17,408,794	19,680
1979-----	26,256,355	10,820	1984-----	20,836,636	197,282
1980-----	22,263,285	22,800	1985-----	18,400,468	210,562
1981-----	22,962,303	19,900	1986-----	17,818,554	238,058
1982-----	16,394,148	17,700	1987-----	16,211,727	-----

## FREIGHT TRAFFIC, 1987

### (SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			LOCAL
		OVERSEAS		CANADIAN		LAKEWISE			
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
TOTAL-----	16,211,727	368,945	1,313,949	1,160,899	4,990,016	3,897,258	4,319,045	161,615	
0103 CORN-----	1,221,830		613,687		608,143				
0107 WHEAT-----	23,040		19,071		3,969				
0111 SOYBEANS-----	664,680		554,408		110,272				
1011 IRON ORE AND CONCENTRATES-----	3,905,259			166,016		3,658,280	80,963		
1121 COAL AND LIGNITE-----	8,406,970		122,665		4,139,904		4,144,401		
1411 LIMESTONE-----	13,390						13,390		
1442 SAND, GRAVEL, CRUSHED ROCK-----	205,072			26,196		19,600		159,276	
1499 NONMETALLIC MINERALS, NEC-----	139,789	8,211		78,079		53,499			
1911 ORDNANCE AND ACCESSORIES-----	21	21							
2034 VEGETABLES AND PREP, NEC-----	70	12	58						
2049 GRAIN MILL PRODUCTS, NEC-----	1		1						
2061 SUGAR-----	8,845	8,845							
2081 ALCOHOLIC BEVERAGES-----	96	96							
2211 BASIC TEXTILE PRODUCTS-----	34	34							
2511 FURNITURE AND FIXTURES-----	9	9							
2621 STANDARD NEWSRINT PAPER-----	15,492			15,492					
2631 PAPER AND PAPERBOARD-----	10		10						
2691 PULP AND PAPER PRODUCTS, NEC-----	2	2							
2817 BENZENE AND TOLUENE-----	27,441				27,441				
2819 BASIC CHEMICALS AND PROD, NEC-----	59	46	13						
2821 PLASTIC MATERIALS-----	1		1						
2841 SOAP-----	3		3						
2871 NITROGENOUS CHEM FERTILIZERS-----	91,258	68,664		22,594					
2872 POTASSIC CHEM FERTILIZERS-----	794,014			794,014					
2879 FERTILIZER AND MATERIALS, NEC-----	6,924			6,924					
2911 GASOLINE-----	41,676			14,715	26,961				
2912 JET FUEL-----	1,869				1,869				
2913 KEROSENE-----	6,946				6,946				
2914 DISTILLATE FUEL OIL-----	26,545			8,598	12,822	5,125			
2915 RESIDUAL FUEL OIL-----	160,196					77,566	80,291	2,339	
2916 LUBRICATING OILS AND GREASES-----	51,688				51,688				
2918 ASPHALT, TAR, AND PITCHES-----	11,015					11,015			
2920 COKE, PETROLEUM COKE-----	2,826		2,826						
3011 RUBBER AND MISC PLASTIC PROD-----	1	1							
3211 GLASS AND GLASS PRODUCTS-----	42	42							
3241 BUILDING CEMENT-----	81,749			9,576		72,173			
3291 MISC NONMETALLIC MINERAL PROD-----	8		8						
3311 PIG IRON-----	15,497			15,497					
3314 IRON AND STEEL PRIMARY FORMS-----	32,364	32,364							
3315 IRON, STEEL SHAPES, EXC SHEET-----	126,725	126,725							
3316 IRON AND STEEL PLATES, SHEETS-----	1,406	1,406							
3317 IRON AND STEEL PIPE AND TUBE-----	3,609	3,609							
3319 IRON AND STEEL PRODUCTS, NEC-----	8	8							
3321 NONFERROUS METALS, NEC-----	2,908	2,565	4	339					
3323 LEAD AND ZINC, UNWORKED-----	110,688	110,688							
3324 ALUMINUM AND ALLOYS, UNWORKED-----	273	273							
3411 FABRICATED METAL PRODUCTS-----	1,508	1,487	21						
3511 MACHINERY, EXCEPT ELECTRICAL-----	4,520	3,429	986	105					
3611 ELECTRICAL MACH AND EQUIP-----	53		53						
3711 MOTOR VEHICLES, PARTS, EQUIP-----	154	39	115						
3731 SHIPS AND BOATS-----	9	9							
4011 IRON AND STEEL SCRAP-----	12		12						
4012 NONFERROUS METAL SCRAP-----	322	322							
4112 COMMODITIES, NEC-----	2,798	38	5	2,754	1				
9999 DEPARTMENT OF DEFENSE AND SCI-----	2		2						

## SANDUSKY HARBOR, OHIO

SECTION INCLUDED: SOUTHEASTERLY PORTION OF SANDUSKY BAY TO AND INCLUDING PASSENGER DOCKS ON CEDAR POINT. CONTROLLING DEPTHS: MOSELY CHANNEL, 26 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25.0 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 21 FEET; STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET. PROJECT DEPTHS: MOSELY CHANNEL, 26 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 22 FEET; AND STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	3,655,748	178,992	1983-----	4,344,281	224,337
1979-----	5,972,652	173,153	1984-----	4,789,730	246,744
1980-----	6,412,386	165,541	1985-----	4,585,990	258,831
1981-----	5,949,310	128,835	1986-----	4,134,889	283,931
1982-----	5,065,353	114,634	1987-----	3,319,468	272,714

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		EXPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	3,319,468	147	2,285,829	274,412	759,080
0131 FRESH FRUITS-----	366			366	
0191 MISCELLANEOUS FARM PRODUCTS-----	2				2
1121 COAL AND LIGNITE-----	3,038,513		2,285,829		752,684
1411 LIMESTONE-----	28,731			28,731	
1442 SAND, GRAVEL, CRUSHED ROCK-----	50,934			50,008	926
1499 GYPSUM, CRUDE AND PLASTERS-----	160,187			160,187	
1499 NONMETALLIC MINERALS, NEC-----	34,860			34,860	
2042 ANIMAL FEEDS-----	22				22
2094 GROCERIES-----	184				184
2095 ICE-----	81				81
2099 MISCELLANEOUS FOOD PRODUCTS-----	283				283
2211 BASIC TEXTILE PRODUCTS-----	1	1			
2491 WOOD MANUFACTURES, NEC-----	22				22
2511 FURNITURE AND FIXTURES-----	8				8
2711 PRINTED MATTER-----	4	4			
2819 BASIC CHEMICALS AND PROD, NEC-----	36	36			
2821 PLASTIC MATERIALS-----	106	106			
2872 POTASSIC CHEM FERTILIZERS-----	20				20
2911 GASOLINE-----	518				518
2914 DISTILLATE FUEL OIL-----	640				640
2918 ASPHALT, TAR, AND PITCHES-----	910				910
2921 LIQUEFIED GASES-----	83				83
3241 BUILDING CEMENT-----	7				7
3511 MACHINERY, EXCEPT ELECTRICAL-----	751			219	532
4011 IRON AND STEEL SCRAP-----	2			2	
4029 WASTE AND SCRAP, NEC-----	24			24	
4112 COMMODITIES, NEC-----	2,170			15	2,155
4119 EMPTY CONTAINERS-----	3				3

## MURON HARBOR, OHIO

SECTION INCLUDED: LAKE APPROACH CHANNEL FROM DEEP WATER TO A POINT OPPOSITE THE OUTER END OF EAST BREAKWATER; ENTRANCE CHANNEL FROM ITS JUNCTION WITH THE APPROACH CHANNEL TO ITS JUNCTION WITH THE RIVER CHANNEL; RIVER CHANNEL AND TURNING BASIN TO WITHIN 1,500 FEET OF THE PENN CENTRAL RAILROAD BRIDGE. CONTROLLING DEPTHS: LAKE APPROACH AND ENTRANCE CHANNEL, 27.5 FEET; RIVER CHANNEL, 27 FEET; TURNING BASIN, 21 FEET. PROJECT DEPTHS: LAKE APPROACH AND ENTRANCE CHANNELS, 29 FEET; RIVER CHANNEL TO SLIP NO. 1, 28 FEET; FROM SLIP NO. 1 THROUGH EASTERN PORTION OF THE TURNING BASIN, 28 FEET; TURNING BASIN, 22 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	2,429,342	1983-----	1,954,308
1979-----	3,457,764	1984-----	2,509,263
1980-----	2,129,061	1985-----	1,950,106
1981-----	2,380,447	1986-----	262,720
1982-----	1,893,109	1987-----	529,031

\* PASSENGERS--686.

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC
		CANADIAN		LAKEWISE
		IMPORTS	EXPORTS	RECEIPTS
TOTAL-----	529,031	23,474	30,380	475,177
0103 CORN-----	30,380		30,380	
0104 OATS-----	13,534	13,534		
1411 LIMESTONE-----	475,177			475,177
2872 POTASSIC CHEM FERTILIZERS-----	9,940	9,940		

LORAIN HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND BLACK RIVER FROM MOUTH TO AND INCLUDING UNITED STATES STEEL CORP., NATIONAL TUBE DIVISION DOCK, 3 MILES. CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 27.0 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 27.0 FEET; REMAINDER OF OUTER HARBOR, 25 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 25 FEET; REMAINDER OF RIVER CHANNEL 20 FEET EXCEPT TURNING BASIN JUST DOWNSTREAM OF THE 21ST STREET BRIDGE WHICH IS 12 TO 19 FEET AND THE TURNING BASIN OPPOSITE THE U. S. STEEL CORP., NATIONAL TUBE DIVISION WHICH IS 12 TO 20 FEET. PROJECT DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 28 FEET; REMAINDER OF OUTER HARBOR, 25 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 28 FEET; REMAINDER OF RIVER CHANNEL, 27 FEET; EXCEPT TURNING BASIN DOWNSTREAM OF 21ST STREET BRIDGE, 20 FEET AND TURNING BASIN OPPOSITE U. S. STEEL CORP., NATIONAL TUBE DIVISION DOCK, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	8,236,264	1983-----	7,229,537
1979-----	4,833,011	1984-----	9,884,246
1980-----	8,151,368	1985-----	9,426,024
1981-----	13,719,545	1986-----	11,426,688
1982-----	5,672,469	1987-----	14,372,412

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC		LOCAL
		CANADIAN	LAKEWISE		
		IMPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	14,372,412	54,085	8,406,418	5,664,837	247,072
1011 IRON ORE AND CONCENTRATES-----	13,656,009	28,093	7,875,760	5,527,428	224,728
1411 LIMESTONE-----	271,937	-----	271,937	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	105,672	-----	-----	83,328	22,344
1494 GYPSUM, CRUDE AND PLASTERS-----	202,851	-----	202,851	-----	-----
2672 POTASSIC CHEM FERTILIZERS-----	25,992	25,992	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	55,870	-----	55,870	-----	-----
3312 SLAG-----	54,081	-----	-----	54,081	-----

CLEVELAND HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR, OLD RIVER AND CUYAHOGA RIVER FROM MOUTH TO AND INCLUDING UPPER REPUBLIC STEEL CORP. DOCK, IMMEDIATELY DOWNSTREAM FROM NORFOLK & WESTERN RAILWAY BRIDGE, 5.8 MILES. CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; ENTRANCE CHANNEL, WEST BASIN AND WESTERLY 800 FEET OF EAST BASIN, 26 FEET; EASTERLY 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 25 FEET; CHANNEL BETWEEN PIERS TO CONRAIL RAILROAD BRIDGE, 27.0 FEET; CHANNEL IN CUYAHOGA RIVER FROM PENN CENTRAL RAILROAD TO UPPER PROJECT LIMIT, 22 FEET; TURNING BASIN UPSTREAM FROM E.I. DUPONT DE NEMOURS AND COMPANY, INC., GRASSELLI CHEMICAL DIVISION DOCK, 19.5 FEET; OLD RIVER TO SAND PRODUCTS CORPORATION DOCK, 23 FEET; REMAINDER OF OLD RIVER TO UPPER PROJECT LIMIT, 14 FEET. PROJECT DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; WEST BASIN, ENTRANCE CHANNEL AND WEST END OF EAST BASIN, 26 FEET; REMAINING 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 25 FEET; LOWER CUYAHOGA RIVER FROM LAKEWARD ENDS OF THE PIERS TO IMMEDIATELY ABOVE JUNCTION WITH OLD RIVER, 27 FEET; OLD RIVER TO UPPER PROJECT LIMIT, 27 FEET; REMAINDER OF CUYAHOGA RIVER, 23 FEET; TURNING BASIN UPSTREAM FROM E.I. DUPONT DE NEMOURS & CO., GRASSELLI CHEMICAL DIVISION DOCK, 18 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	19,658,862	127,820	1983-----	11,359,960	165,600
1979-----	19,470,349	120,400	1984-----	12,920,708	160,000
1980-----	14,045,151	-----	1985-----	13,767,174	190,000
1981-----	13,903,840	27,200	1986-----	12,186,278	200,000
1982-----	6,941,232	184,000	1987-----	13,914,047	-----

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	13,914,047	541,528	43,170	1,901,873	171,874
0107 WHEAT-----	69,480	-----	-----	-----	69,480
0133 COFFEE-----	19	-----	19	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	67	-----	67	-----	-----
1011 IRON ORE AND CONCENTRATES-----	8,522,622	-----	-----	889,354	7,633,268
1051 ALUMINUM DRES, CONCENTRATES-----	3,157	3,157	-----	-----	-----
1311 CRUDE PETROLEUM-----	16,183	-----	-----	16,183	-----
1411 LIMESTONE-----	2,336,037	-----	-----	-----	2,336,037
1442 SAND, GRAVEL, CRUSHED ROCK-----	962,274	-----	-----	835,943	18,408
1499 NONMETALLIC MINERALS, NEC-----	588,909	-----	-----	153,457	435,452
2014 TALLOW, ANIMAL FATS AND OILS-----	2,183	-----	2,183	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	10	10	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	695	695	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	4	4	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2	2	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	5	5	-----	-----	-----
2311 APPAREL-----	1	1	-----	-----	-----
2411 LOGS-----	59	59	-----	-----	-----
2421 LUMBER-----	559	-----	-----	559	-----
2511 FURNITURE AND FIXTURES-----	7	7	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	14,444	-----	-----	-----	14,444
2819 BASIC CHEMICALS AND PROD, NEC-----	47	47	-----	-----	-----
2821 PLASTIC MATERIALS-----	17	17	-----	-----	-----
2851 PAINTS-----	14,765	223	-----	14,542	-----



## CLEVELAND HARBOR, OHIO--CONTINUED

## FREIGHT TRAFFIC, 1987--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC LAKEWISE	
		OVERSEAS		CANADIAN		RECEIPTS	SHIPMENTS
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
2879 FERTILIZER AND MATERIALS, NEC-----	40	40					
2891 MISCELLANEOUS CHEMICAL PROD-----	64	64					
2911 GASOLINE-----	3,159			3,159			
2914 DISTILLATE FUEL OIL-----	54,809			54,809			
2915 RESIDUAL FUEL OIL-----	77,787					28,295	49,492
2918 ASPHALT, TAR, AND PITCHES-----	167,931					165,094	2,837
3011 RUBBER AND MISC PLASTIC PROD-----	475	475					
3211 GLASS AND GLASS PRODUCTS-----	46	46					
3241 BUILDING CEMENT-----	497,276			84,071		413,205	
3251 STRUCTURAL CLAY PRODUCTS-----	3,056	3,056					
3281 CUT STONE AND STONE PRODUCTS-----	9				9		
3291 MISC NONMETALLIC MINERAL PROD-----	12	12					
3314 IRON AND STEEL PRIMARY FORMS-----	174,284	173,072	1,212				
3315 IRON, STEEL SHAPES, EXC SHEET-----	327,720	327,720					
3316 IRON AND STEEL PLATES, SHEETS-----	11,587	818	10,769				
3317 IRON AND STEEL PIPE AND TUBE-----	3,420	3,420					
3318 FERROALLOYS-----	7,135	3,885		3,250			
3319 IRON AND STEEL PRODUCTS, NEC-----	236	196	40				
3321 NONFERROUS METALS, NEC-----	38	38					
3322 COPPER ALLOYS, UNWORKED-----	7	7					
3323 LEAD AND ZINC, UNWORKED-----	2,280	2,280					
3324 ALUMINUM AND ALLOYS, UNWORKED-----	4,315	4,315					
3411 FABRICATED METAL PRODUCTS-----	3,098	3,098		2			
3511 MACHINERY, EXCEPT ELECTRICAL-----	15,696	14,005	1,690	1			
3611 ELECTRICAL MACH AND EQUIP-----	101	101					
3711 MOTOR VEHICLES, PARTS, EQUIP-----	700	58	642				
3911 MISC MANUFACTURED PRODUCTS-----	8	8					
4011 IRON AND STEEL SCRAP-----	26,095		26,095				
4012 NONFERROUS METAL SCRAP-----	448	448					
4112 COMMODITIES, NEC-----	669	55	539				75

## FAIRPORT HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND GRAND RIVER FROM MOUTH TO AND INCLUDING DIAMOND ALKALI COMPANY STONE DOCK, 1.5 MILES. CONTROLLING DEPTHS: ENTRANCE CHANNEL, 24 FEET; OUTER HARBOR, 20.0 FEET; GRAND RIVER TO UPSTREAM OF REPUBLIC STEEL, 19.0 FEET; REMAINING LENGTH OF GRAND RIVER TO THE UPPER PROJECT LIMIT, 19 FEET; EXCEPT FOR 1,000 FEET OF THE UPSTREAM END OF THE WEST SIDE OF THE CHANNEL, 5 FEET; TURNING BASIN, 15 FEET. MAINTENANCE DEPTHS: ENTRANCE CHANNEL AND OUTER HARBOR, 25 FEET; GRAND RIVER TO UPSTREAM OF REPUBLIC STEEL, 24 FEET; REMAINING LENGTH OF GRAND RIVER TO THE UPPER PROJECT LIMITS, 21 FEET; TURNING BASIN, 18 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	2,590,469	1983-----	1,709,584
1979-----	2,391,800	1984-----	1,905,097
1980-----	1,906,627	1985-----	2,317,777
1981-----	1,674,166	1986-----	2,492,551
1982-----	1,626,977	1987-----	2,077,272

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC LAKEWISE		LOCAL
		OVERSEAS		CANADIAN		RECEIPTS	SHIPMENTS	
		EXPORTS	IMPORTS	EXPORTS	IMPORTS			
TOTAL-----	2,077,272	28,144	25,655	28,016	1,530,540	370,491		94,426
1411 LIMESTONE-----	1,530,540				1,530,540			
1442 SAND, GRAVEL, CRUSHED ROCK-----	120,081		25,655					94,426
1499 NONMETALLIC MINERALS, NEC-----	426,651	28,144		28,016		370,491		

## ASHTABULA HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND ASHTABULA RIVER FROM MOUTH TO AND INCLUDING CITY OF ASHTABULA DOCK (FORMER GREAT LAKES ENGINEERING WORKS DOCK), 1.75 MILES. CONTROLLING DEPTHS: WESTERLY PORTION OF OUTER HARBOR TO INNER BREAKWATER & APPROACH CHANNEL TO DOCKS EAST OF INNER BREAKWATER, 26.0 FEET TURNING BASIN IN FRONT OF INNER BREAKWATER 21.5 FEET; THE APPROACH TO THE PENN. CENTRAL RAILROAD COMPANY'S SLIP AND THE LOWER 2,000 FEET OF THE ASHTABULA RIVER, 23 FEET; THENCE TO CAR FERRY SLIP, 10 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN AND INCLUDING TURNING BASIN, 3 FEET. PROJECT DEPTHS: ENTRANCE CHANNEL, 29 FEET; WESTERLY PORTION OF OUTER HARBOR TO INNER BREAKWATER, 28 FEET; APPROACH CHANNEL TO DOCKS EAST OF INNER BREAKWATER, 28 FEET; TURNING BASIN IN THE EASTERLY PORTION OF THE OUTER HARBOR, 22 FEET; CHANNEL FROM INSIDE THE INNER BREAKWATER TO MOUTH OF RIVER AND 2,000 FEET UPSTREAM AND APPROACH CHANNEL TO PENN. CENTRAL RAILROAD SLIP, 27 FEET; THENCE TO CAR FERRY SLIP, 18 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN AND INCLUDING TURNING BASIN, 16 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	12,830,261	1983-----	8,395,023
1979-----	14,602,645	1984-----	9,243,475
1980-----	10,074,956	1985-----	7,039,128
1981-----	9,947,755	1986-----	7,163,593
1982-----	6,832,337	1987-----	8,886,069

ASHTABULA HARBOR, OHIO--CONTINUED

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC LAKEWISE	
		OVERSEAS		CANADIAN		RECEIPTS	SHIPMENTS
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
TOTAL-----	8,888,069	159,863	45,028	505,249	4,857,888	2,094,987	1,225,094
1011 IRON ORE AND CONCENTRATES-----	2,083,729	-----	-----	255,464	-----	1,828,265	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	57,332	57,332	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	6,076,672	-----	-----	-----	4,851,578	-----	1,225,094
1411 LIMESTONE-----	266,722	-----	-----	-----	-----	266,722	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	105,599	-----	-----	105,599	-----	-----	-----
1451 CLAY-----	16,756	-----	10,523	-----	6,233	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	28,450	-----	28,450	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	89,826	-----	-----	89,826	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	37	-----	-----	-----	37	-----	-----
3241 BUILDING CEMENT-----	38,901	-----	-----	38,901	-----	-----	-----
3311 PIG IRON-----	13,791	-----	-----	13,791	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	6,952	6,952	-----	-----	-----	-----	-----
3318 FERROALLOYS-----	4,801	3,133	-----	1,668	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	52	52	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,009	2,009	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	8	8	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	16,578	-----	16,578	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	79,854	79,854	-----	-----	-----	-----	-----

CONNEAUT HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND CONNEAUT RIVER 2,450 FEET UPSTREAM OF THE OUTER END OF THE WEST PIER. CONTROLLING DEPTH: WESTERLY PORTION OF OUTER HARBOR, 20.5 FEET; ACCESS CHANNEL TO CITY DOCK, 7.5 FEET; EASTERLY PORTION OF OUTER HARBOR 23 FEET. INNER HARBOR, 28.5 FEET; PROJECT DEPTH: EASTERLY PORTION OF OUTER HARBOR, 28 FEET; WESTERLY PORTION OF OUTER HARBOR, 22 FEET; ACCESS CHANNEL TO CITY DOCK, 8 FEET; INNER HARBOR, 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	17,427,794	1983-----	8,771,290
1979-----	21,478,061	1984-----	12,660,783
1980-----	18,654,609	1985-----	9,148,003
1981-----	16,150,563	1986-----	7,675,248
1982-----	10,968,273	1987-----	7,046,570

FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC LAKEWISE	
		OVERSEAS	CANADIAN		RECEIPTS	SHIPMENTS
		IMPORTS	IMPORTS	EXPORTS		
TOTAL-----	7,046,570	21	111,265	4,265,422	1,808,089	861,773
1011 IRON ORE AND CONCENTRATES-----	1,266,241	-----	111,265	-----	1,131,669	23,307
1121 COAL AND LIGNITE-----	5,103,888	-----	-----	4,265,422	-----	838,466
1411 LIMESTONE-----	676,420	-----	-----	-----	676,420	-----
2821 PLASTIC MATERIALS-----	21	21	-----	-----	-----	-----

ERIE HARBOR, PA.

SECTION INCLUDED: SOUTHERLY SIDE OF ERIE HARBOR AND LAKE ERIE WATER FRONTAGE FROM HARBOR ENTRANCE EASTWARD TO AND INCLUDING SUN OIL CO. DOCK, 3.5 MILES. CONTROLLING DEPTH: ENTRANCE CHANNEL, 29 FEET; CHANNEL TO EASTERLY COAL AND ORE DOCKS, 27 FEET; AND 27 FEET TO THE PORT AUTHORITY DOCK; HARBOR BASIN, 21 FEET; WESTERLY PORTION OF HARBOR, 18 FEET. PROJECT DEPTH: ENTRANCE CHANNEL, 29 FEET; APPROACH CHANNEL TO EASTERLY COAL AND ORE DOCKS, 28 FEET; APPROACH TO PORT AUTHORITY DOCKS, 27 FEET; HARBOR BASIN, 21 FEET; WESTERLY PORTION OF HARBOR BASIN, 18 FEET. THE APPROACH CHANNEL FROM THE 28 FOOT CHANNEL TO AND INCLUDING TURNING BASIN AT WESTERLY DOCKS HAS BEEN AUTHORIZED, BUT NEVER COMPLETED AND CONSIDERED INACTIVE AT THE PRESENT TIME.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	1,129,985	67,206	1983-----	606,690	-----
1979-----	833,707	27,360	1984-----	828,904	19,940
1980-----	508,075	24,088	1985-----	965,589	26,988
1981-----	754,698	20,428	1986-----	834,141	12,600
1982-----	624,432	14,698	1987-----	971,320	25,800

## ERIE HARBOR, PA.--CONTINUED

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		LAKENISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	971,320	38,973	19,760	93,123	570,811
1411 LIMESTONE-----	496,051	-----	-----	496,051	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	325,674	-----	-----	85,021	240,653
1499 NONMETALLIC MINERALS, NEC-----	82,760	-----	-----	-----	82,760
2099 MISCELLANEOUS FOOD PRODUCTS-----	23	23	-----	-----	-----
2421 LUMBER-----	1,635	-----	1,635	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	29	-----	29	-----	-----
3311 PIG IRON-----	3,846	1,401	-----	2,445	-----
3314 IRON AND STEEL PRIMARY FORMS-----	13,504	13,504	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	6,728	6,728	-----	-----	-----
3318 FERROALLOYS-----	22,959	17,302	-----	5,657	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	14	14	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	1	1	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1,822	-----	1,822	-----	-----
4011 IRON AND STEEL SCRAP-----	16,151	-----	16,151	-----	-----
4012 NONFERROUS METAL SCRAP-----	123	-----	123	-----	-----

## BUFFALO HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)

SECTION INCLUDED: OUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL R. Y. BRIDGE, 5.5 MILES, BUFFALO SHIP CANAL, AND BLACK ROCK LOCK CANAL TO THE BLACK ROCK LOCK. CONTROLLING DEPTHS: OUTER AREA OF SOUTH ENTRANCE CHANNEL, 30 FEET; SOUTH ENTRANCE CHANNEL 29.0 FEET; SOUTHERN PORTION OF OUTER HARBOR, 28 FEET; 900 FEET WIDE SECTION ADJACENT TO THE SOUTH BREAKWATER BEGINNING 2,000 FEET NORTH OF THE SOUTH BREAKWATER AND PROCEEDING NORTHERLY 4,200 FEET, 23 FEET; THENCE 27 FEET TO THE INTERNATIONAL SALT COMPANY AND 23 FEET IN THE REMAINDER OF THE OUTER HARBOR TO THE NORTH; NEW NORTH ENTRANCE CHANNEL, 25 FEET; BLACK ROCK CANAL, 21 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER AND BUFFALO SHIP CANAL, 22 FEET. PROJECT DEPTHS: OUTER AREA OF SOUTH ENTRANCE CHANNEL, 30 FEET; SOUTH ENTRANCE CHANNEL 29 FEET; SOUTHERN PORTION OF OUTER HARBOR, 28 FEET; 900 FEET WIDE SECTION ADJACENT TO THE SOUTH BREAKWATER BEGINNING 2,000 FEET NORTH OF THE SOUTH BREAKWATER AND PROCEEDING NORTHERLY 4,200 FEET, 23 FEET. MIDDLE SECTION OF THE OUTER HARBOR, 27 FEET; NORTH OUTER HARBOR, 23 FEET; NORTH ENTRANCE CHANNEL, 25 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER AND BUFFALO SHIP CANAL, 22 FEET, BLACK ROCK CANAL, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	9,134,753	-----	1983-----	1,963,434	-----
1979-----	8,315,880	-----	1984-----	1,490,354	-----
1980-----	5,870,309	-----	1985-----	1,399,804	-----
1981-----	5,780,021	-----	1986-----	1,464,460	-----
1982-----	3,551,960	-----	1987-----	1,102,814	-----

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		LAKENISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	1,102,814	3,900	12,974	47,502	965,208
0107 WHEAT-----	519,541	-----	-----	-----	519,541
0141 FRESH AND FROZEN VEGETABLES-----	22	-----	22	-----	-----
1411 LIMESTONE-----	151,836	-----	-----	-----	151,836
1442 SAND, GRAVEL, CRUSHED ROCK-----	52,379	-----	-----	-----	52,379
1499 NONMETALLIC MINERALS, NEC-----	119,778	-----	-----	-----	119,778
2049 GRAIN MILL PRODUCTS, NEC-----	5	5	-----	-----	-----
2061 SUGAR-----	20	-----	20	-----	-----
2081 ALCOHOLIC BEVERAGES-----	5	5	-----	-----	-----
2421 LUMBER-----	161	-----	22	139	-----
2511 FURNITURE AND FIXTURES-----	21	21	-----	-----	-----
2611 PULP-----	11,953	-----	11,953	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	23,069	-----	-----	-----	23,069
2819 BASIC CHEMICALS AND PROD, NEC-----	43	-----	43	-----	-----
2821 PLASTIC MATERIALS-----	11	-----	11	-----	-----
2841 SOAP-----	85	45	-----	40	-----
2851 PAINTS-----	1	1	-----	-----	-----
2911 GASOLINE-----	84,696	-----	12,524	-----	72,172
2914 DISTILLATE FUEL OIL-----	38,478	-----	29,492	-----	8,986
2915 RESIDUAL FUEL OIL-----	5,221	-----	5,221	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	2,837	-----	-----	-----	2,837
2920 COKE, PETROLEUM COKE-----	73,230	-----	-----	9,163	64,067
3011 RUBBER AND MISC PLASTIC PROD-----	76	62	14	-----	-----
3201 BUILDING CEMENT-----	14,610	-----	-----	-----	14,610
3291 MISC NONMETALLIC MINERAL PROD-----	9	9	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,861	2,861	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	1	1	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3	-----	3	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,763	862	7	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	25	1	22	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	73	-----	73	-----	-----
4112 COMMODITIES, NEC-----	1	-----	1	-----	-----

# BUFFALO, NY, DISTRICT

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## NIAGARA RIVER, N. Y. (INCLUDED IN PORT OF BUFFALO)

SECTION INCLUDED: BLACK ROCK CHANNEL NORTH OF THE BLACK ROCK LOCK AND NIAGARA RIVER TO AND INCLUDING AMERICAN OIL CO. DOCK, 0.5 MILE SOUTH OF THE TONAWANDA CITY LINE, THE NORTHERN LIMIT OF THE NIAGARA RIVER SECTION OF THE PORT OF BUFFALO, CONTROLLING AND PROJECT DEPTHS: 21 FEET.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	889,964	1983-----	322,642
1979-----	559,084	1984-----	363,912
1980-----	563,579	1985-----	404,965
1981-----	455,607	1986-----	201,155
1982-----	430,150	1987-----	181,980

### FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		THROUGH	THROUGH	RECEIPTS	SHIPMENTS
		SOUTHBOUND	IMPORTS	NORTHBOUND	
TOTAL-----	341,980	10,961	30,288	21,589	236,921 42,221
1121 COAL AND LIGNITE-----	73,275				73,275
2611 PULP-----	10,961	10,961			
2911 GASOLINE-----	10,475		9,132		1,343
2914 DISTILLATE FUEL OIL-----	21,589			21,589	
2915 RESIDUAL FUEL OIL-----	41,490		21,156		20,334
2918 ASPHALT, TAR, AND PITCHES-----	141,969				141,969
2920 COKE, PETROLEUM COKE-----	42,221				42,221
TOTAL TON-MILES, 1,844,864.					

### PORT OF BUFFALO, N. Y.

SECTION INCLUDED: OUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL RY BRIDGE 5.5 MILES, BUFFALO SHIP CANAL, BLACK ROCK CANAL, BLACK ROCK LOCK, BLACK ROCK CHANNEL, NIAGARA RIVER, AND TONAWANDA TO AND INCLUDING BUFFALO OIL TERMINAL, INC. DOCK, LOCATED ABOUT 2,000 FEET NORTH OF TURNING BASIN, TONAWANDA INNER HARBOR, AND TONAWANDA CREEK CHANNEL FROM MOUTH TO MAIN STREET BRIDGE. CONTROLLING AND PROJECT DEPTHS: SEE BUFFALO HARBOR, NIAGARA RIVER AND TONAWANDA.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1978-----	9,961,560		1983-----	2,286,076	
1979-----	8,840,496		1984-----	1,854,268	
1980-----	5,986,470		1985-----	1,779,491	
1981-----	6,181,156		1986-----	1,628,169	
1982-----	3,968,173		1987-----	1,412,244	

### FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS RECEIPTS SHIPMENTS
TOTAL-----	1,412,244	3,900	12,974	77,790	9,163 1,202,129 106,288
0107 WHEAT-----	519,541				519,541
0141 FRESH AND FROZEN VEGETABLES-----	22			22	
1121 COAL AND LIGNITE-----	73,275				73,275
1411 LIMESTONE-----	151,836				151,836
1442 SAND, GRAVEL, CRUSHED ROCK-----	52,379				52,379
1499 NONMETALLIC MINERALS, NEC-----	119,778				119,778
2049 GRAIN MILL PRODUCTS, NEC-----	5		5		
2061 SUGAR-----	20			20	
2081 ALCOHOLIC BEVERAGES-----	5		5		
2421 LUMBER-----	161		22	139	
2511 FURNITURE AND FIXTURES-----	21		21		
2611 PULP-----	11,953		11,953		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	23,069				23,069
2819 BASIC CHEMICALS AND PROD, NEC-----	43		43		
2821 PLASTIC MATERIALS-----	11		11		
2841 SOAP-----	85		40		
2851 PAINTS-----	1		1		
2911 GASOLINE-----	95,171		21,656		73,515
2914 DISTILLATE FUEL OIL-----	38,478		29,492		8,986
2915 RESIDUAL FUEL OIL-----	46,711		26,377		20,334
2918 ASPHALT, TAR, AND PITCHES-----	144,806				144,806
2920 COKE, PETROLEUM COKE-----	115,451			9,163	106,288
3011 RUBBER AND MISC PLASTIC PROD-----	76		62	14	
3241 BUILDING CEMENT-----	14,610				14,610
3291 MISC NONMETALLIC MINERAL PROD-----	9		9		
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,861	2,861			
3319 IRON AND STEEL PRODUCTS, NEC-----	1		1		
3411 FABRICATED METAL PRODUCTS-----	3		3		
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,763	894	862	7	
3611 ELECTRICAL MACH AND EQUIP-----	25		2	22	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	73		73		
4112 COMMODITIES, NEC-----	1			1	

## Waterborne Commerce of the United States, 1987

## OSWEGO HARBOR, N. Y.

SECTION INCLUDED: OUTER HARBOR AND OSWEGO RIVER FROM MOUTH TO SENECA STREET. CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 27 FEET; CHANNEL THROUGH OUTER HARBOR, 24 FEET; EAST AND WEST SIDE OF OUTER HARBOR, 21 FEET; OSWEGO RIVER CHANNEL, 24 FEET. PROJECT DEPTHS: LAKE APPROACH CHANNEL, 27 FEET; CHANNEL THROUGH OUTER HARBOR, 25 FEET; LOWER 1,600 FEET OF OSWEGO RIVER CHANNEL, 24 FEET; REMAINDER OF OSWEGO RIVER CHANNEL AND OSWEGO HARBOR, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	1,215,979	1983-----	354,850
1979-----	1,495,967	1984-----	473,657
1980-----	860,144	1985-----	525,076
1981-----	1,039,707	1986-----	482,648
1982-----	542,128	1987-----	446,811

## FREIGHT TRAFFIC, 1987

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		OVERSEAS		CANADIAN	LAKELAND	INTERNAL
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	446,811	7,603	893	332,113	20,294	85,908
1411 LIMESTONE-----	15,294				15,294	
1499 NONMETALLIC MINERALS, NEC-----	5,000				5,000	
2211 BASIC TEXTILE PRODUCTS-----	604	604				
2851 PAINTS-----	7,700			7,700		
2871 NITROGENOUS CHEM FERTILIZERS-----	4,213			4,213		
2872 POTASSIC CHEM FERTILIZERS-----	7,335			7,335		
2879 FERTILIZER AND MATERIALS, NEC-----	13,000			13,000		
2914 DISTILLATE FUEL OIL-----	10,490			10,490		
2915 RESIDUAL FUEL OIL-----	56,398	5,271		51,127		
3241 BUILDING CEMENT-----	323,991			236,083		85,908
3324 ALUMINUM AND ALLOYS, UNWORKED-----	1,818	1,653		165		
3511 MACHINERY, EXCEPT ELECTRICAL-----	893		893			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	75	75				

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT			
BARCELONA HARBOR, N. Y.,-----	NO COMMERCE REPORTED		
CAPE VINCENT, N. Y.,-----	NO COMMERCE REPORTED		
DUNKIRK HARBOR, N. Y.,-----	NO COMMERCE REPORTED		
GREAT SODUS BAY HARBOR, N. Y.,-----	NO COMMERCE REPORTED		
KELLEYS ISLAND, OHIO-----	0191 MISCELLANEOUS FARM PRODUCTS----- 2 1442 SAND, GRAVEL, CRUSHED ROCK----- 904 2042 ANIMAL FEEDS----- 22 2094 GROCERIES----- 184 2095 ICE----- 81 2099 MISCELLANEOUS FOOD PRODUCTS----- 283 2491 WOOD MANUFACTURES, NEC----- 20 2511 FURNITURE AND FIXTURES----- 8 2911 GASOLINE----- 497 2914 DISTILLATE FUEL OIL----- 567 2918 ASPHALT, TAR, AND PITCHES----- 910 2921 LIQUEFIED GASES----- 70 3511 MACHINERY, EXCEPT ELECTRICAL----- 751 4029 WASTE AND SCRAP, NEC----- 19 4112 COMMODITIES, NEC----- 2,133		
	TOTAL-----	6,451	208,596
VIAGRA FALLS, N. Y.,-----	2611 PULP----- 10,961 2914 DISTILLATE FUEL OIL----- 21,589		
	TOTAL-----	32,550	
WILKESBORO HARBOR, N. Y.,-----	1411 LIMESTONE----- 22,500 1451 CLAY----- 10 1499 NONMETALLIC MINERALS, NEC----- 104,815 2042 ANIMAL FEEDS----- 12,402 2819 BASIC CHEMICALS AND PROD, NEC----- 1 3511 MACHINERY, EXCEPT ELECTRICAL----- 3		
	TOTAL-----	139,731	
PORT CLINTON HARBOR, OHIO-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 13,720 2911 GASOLINE----- 14 2913 KEROSENE----- 8 2921 LIQUEFIED GASES----- 418 4112 COMMODITIES, NEC----- 4,444		
	TOTAL-----	18,604	92,918
ROCHESTER (CHARLOTTE) HARBOR, N. Y.,-----	2912 JET FUEL----- 5,850 3241 BUILDING CEMENT----- 237,102 3511 MACHINERY, EXCEPT ELECTRICAL----- 45 3611 ELECTRICAL MACH AND EQUIP----- 17 3721 AIRCRAFT AND PARTS----- 4 3811 INSTR, TIME, PHOTO, OPT GOODS----- 16 3911 MISC MANUFACTURED PRODUCTS----- 1 4112 COMMODITIES, NEC----- 10		
	TOTAL-----	243,045	
SACKETT HARBOR, N. Y.,-----	NO COMMERCE REPORTED		
TONAWANDA HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)-----	NO COMMERCE REPORTED		
VERMILION HARBOR, OHIO-----	NO COMMERCE REPORTED		
WADSWORTH HARBOR, N. Y.,-----	NO COMMERCE REPORTED		

# Waterborne Commerce of the United States, 1987

## ROCK ISLAND, IL, DISTRICT

ILLINOIS RIVER, ILL. (INCLUDED IN THE  
ILLINOIS WATERWAY CONSOLIDATED)

SECTION INCLUDED: MOUTH OF ILLINOIS RIVER, GRAFTON, ILLINOIS, TO LOCKPORT, ILLINOIS, 291.0 MILES. CONTROLLING AND PROJECT DEPTHS: 9 FEET.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1978-----	37,251,157	1983-----	41,028,849
1979-----	35,150,250	1984-----	37,085,576
1980-----	41,703,337	1985-----	36,534,770
1981-----	39,764,349	1986-----	39,901,394
1982-----	39,471,855	1987-----	38,431,170

### FREIGHT TRAFFIC, 1987

#### COASTWISE

(SHORT TONS)

COMMODITY	DOMESTIC COASTWISE THROUGH DOWNBOUND
TOTAL-----	8,539
2915 RESIDUAL FUEL OIL-----	8,539
TON-MILES, COASTWISE, 2,488,849,	

#### INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	UPBOUND	INBOUND UPBOUND	OUTBOUND UPBOUND	THROUGH UPBOUND	DOWNBOUND	INBOUND DOWNBOUND	OUTBOUND DOWNBOUND	THROUGH DOWNBOUND
TOTAL-----	38,422,631	45,596	6,461,977	3,666,206	6,187,057	187,693	617,338	17,989,048	3,467,716
0103 CORN-----	11,254,158	1,491	13,297	1,417			22,758	10,798,256	416,939
0104 OATS-----	2,937								2,937
0106 SORGHUM GRAINS-----	33,747		4,389					29,398	
0107 WHEAT-----	269,506		4,310					199,532	65,664
0111 SOYBEANS-----	3,612,255							3,420,158	192,117
0119 OILSEEDS, NEC-----	1,472		1,472						
0911 FRESH FISH, EXCEPT SHELLFISH-----	109	109							
0931 MARINE SHELLS, UNMANUFACTURED-----	7,319				7,319				
1011 IRON ORE AND CONCENTRATES-----	16,437				16,437				
1051 ALUMINUM ORES, CONCENTRATES-----	2,971				2,971				
1061 MANGANESE ORES, CONCENTRATES-----	63,055				63,055				
1091 NONFERROUS ORES, CONCENT, NEC-----	17,034				15,434				1,600
1121 COAL AND LIGNITE-----	5,756,598		2,201,587	2,059,388	1,495,623				
1311 CRUDE PETROLEUM-----	176,109		5,840				3,376	2,538	164,355
1411 LIMESTONE-----	75,813		35,487		4,440				35,886
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,596,630	3,865	20,869	1,175,052	51,682		314,550	30,612	
1451 CLAY-----	1,411				1,411				
1494 GYPSUM, CRUDE AND PLASTERS-----	11,115		11,115						
1499 NONMETALLIC MINERALS, NEC-----	472,697		154,000		318,697				
2014 TALLOW, ANIMAL FATS AND OILS-----	36,867								36,867
2042 ANIMAL FEEDS-----	1,847,193		25,890	1,576	4,764			1,792,813	24,350
2049 GRAIN MILL PRODUCTS, NEC-----	277,743		2,919	2,757				253,034	19,033
2061 SUGAR-----	54,697				52,164			1,285	1,248
2062 MOLASSES-----	95,194		18,698		76,496				
2091 VEGETABLE OILS, MARG, SHORT-----	15,837		9,620		1,473			1,344	1,400
2211 BASIC TEXTILE PRODUCTS-----	1,088		1,088						
2421 LUMBER-----	11,184		1,400		9,784				
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,891		576	507	2,808				
2611 PULP-----	7,649				7,649				
2631 PAPER AND PAPERBOARD-----	10,434				10,434				
2810 SODIUM HYDROXIDE-----	523,502				511,669			5,374	6,459
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	189,487		56,841		11,752		2,800	8,860	112,034
2813 ALCOHOLS-----	687,686		32,142	160,018	184,355	523		294,412	16,236
2817 BENZENE AND TOLUENE-----	61,218		4,192	1,400	11,504				44,122
2818 SULPHURIC ACID-----	1,313				1,313				
2819 BASIC CHEMICALS AND PROD, NEC-----	1,409,883	2,500	998,851	746	349,829		29,455	12,139	18,363
2871 NITROGENOUS CHEM FERTILIZERS-----	594,237	17,817	365,226	13,055	134,733	13,809	2,541	24,831	22,225
2872 POTASSIC CHEM FERTILIZERS-----	209,377	2,995	195,835		7,337			3,210	
2873 PHOSPHATIC CHEM FERTILIZERS-----	86,363		72,700	1,274	9,720			2,669	
2879 FERTILIZER AND MATERIALS, NEC-----	635,836	3,261	619,042		10,534			2,999	
2891 MISCELLANEOUS CHEMICAL PROD-----	60,895		1,245		36,589				23,061
2911 GASOLINE-----	724,875		359,157	1,400	43,496	77,273	54,187	180,988	8,380
2913 KEROSENE-----	39,064				39,064				
2914 DISTILLATE FUEL OIL-----	579,734	5,531	214,624	77,376	45,200	51,269	30,870	91,809	63,055
2915 RESIDUAL FUEL OIL-----	1,365,876	1,827	598,311	45,893	162,205		34,845	140,833	361,962
2916 LUBRICATING OILS AND GREASES-----	333,252		2,623		273,310				57,319
2917 NAPHTHA, PETROLEUM SOLVENTS-----	160,560		37,083		75,789		10,913		36,775
2918 ASPHALT, TAR, AND PITCHES-----	464,464	3,000	175,903	16,357	58,405	3,000	14,146		193,653
2920 COKE, PETROLEUM COKE-----	1,335,197	3,200	1,400	89,940	166,623	81,819	4,992	593,461	433,762
2991 PETROLEUM AND COAL PROD, NEC-----	4,256		4,256						
3241 BUILDING CEMENT-----	802,310		39,309		763,001				
3271 LIME-----	81,511		71,473		8,602				1,436
3311 PIG IRON-----	38,294		4,558		30,704				3,032
3312 SLAG-----	201,541		1,669	4,516	90,455		26,393		78,508
3314 IRON AND STEEL PRIMARY FORMS-----	343,093		23,089		192,443			15,599	111,962

# ROCK ISLAND, IL, DISTRICT

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ILLINOIS RIVER, ILL. (INCLUDED IN THE  
ILLINOIS WATERWAY CONSOLIDATED)--CONTINUED

FREIGHT TRAFFIC, 1987--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	UPBOUND	INBOUND UPBOUND	OUTBOUND UPBOUND	THROUGH UPBOUND	DOWNBOUND	INBOUND DOWNBOUND	OUTBOUND DOWNBOUND	THROUGH DOWNBOUND
3315 IRON, STEEL SHAPES, EXC SHEET--	529,095	-----	15,704	-----	381,347	-----	19,229	45,413	67,402
3316 IRON AND STEEL PLATES, SHEETS--	159,991	-----	4,340	-----	37,650	-----	800	-----	117,201
3317 IRON AND STEEL PIPE AND TUBE--	31,684	-----	7,095	-----	23,549	-----	-----	-----	1,040
3318 FERROALLOYS-----	171,402	-----	-----	-----	164,117	-----	-----	-----	7,285
3319 IRON AND STEEL PRODUCTS, NEC--	77,061	-----	65	-----	27,648	-----	7,958	4,690	36,700
3323 LEAD AND ZINC, UNWORKED-----	8,312	-----	-----	-----	8,312	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED--	7,444	-----	-----	-----	7,444	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	4,286	-----	1,534	400	2,312	-----	-----	-----	40
3511 MACHINERY, EXCEPT ELECTRICAL--	20,697	-----	9,209	-----	4,940	-----	-----	3,348	2,600
3711 MOTOR VEHICLES, PARTS, EQUIP--	2,342	-----	-----	-----	993	-----	-----	1,349	-----
3731 SHIPS AND BOATS-----	214	-----	-----	-----	130	-----	-----	-----	84
4011 IRON AND STEEL SCRAP-----	719,789	-----	30,884	13,134	148,546	-----	37,525	20,315	469,385
4029 WASTE AND SCRAP, NEL-----	23,036	-----	-----	-----	-----	-----	-----	9,799	13,239
4112 COMMODITIES, NEC-----	1,552	-----	750	-----	802	-----	-----	-----	-----
4118 WATERWAY IMPROVEMENT MAT-----	1,350	-----	1,350	-----	-----	-----	-----	-----	-----
TON-MILES, INTERNAL,	7,610,582,875.								
TONS, ALL TRAFFIC,	38,431,170.								
TON-MILES, ALL TRAFFIC,	7,613,067,724.								



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**SECTION 2**

**TRIPS AND DRAFTS OF VESSELS**

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	DRAFT (FEET)	SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			TOTAL	
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		
TWO HARBORS (AGATE BAY), MINN.										
28 - - - - -										
27 - - - - -	13		10		23	81		10	90	
26 - - - - -						51			62	
25 - - - - -						4			4	
24 - - - - -	10			3	13	1			1	
23 - - - - -	20			7	20	2			2	
22 - - - - -	11				18					
21 - - - - -	41				41					
20 - - - - -	10				10					
19 - - - - -	24				24					
18 - - - - -	6				6					
17 - - - - -	1				1					
16 - - - - -	1				1					
15 - - - - -	1				1					
12 AND LESS - - - - -	180				180	180			180	
TOTAL - - - - -	317		10	10	337	319		10	339	
DULUTH-SUPERIOR HARBOR, MINN. AND WIS.										
29 - - - - -	1				1	2			3	
28 - - - - -	2				2	319			336	
27 - - - - -	31		20		51	227		21	248	
26 - - - - -	25				25	210			210	
25 - - - - -	10			2	12	4			5	
24 - - - - -	40			1	41	17			18	
23 - - - - -	88	1		18	107	50			50	
22 - - - - -	142				142	21			21	
21 - - - - -	156	1			157	20			20	
20 - - - - -	169				169	26			26	
19 - - - - -	77				77	5			5	
18 - - - - -	109		2		111	12		2	14	
17 - - - - -	47		2		49	14		2	16	
16 - - - - -	167		2		170	4	1	2	7	
15 - - - - -	4				4	2			2	
14 - - - - -	11		1		12	154		1	155	
13 - - - - -	1	3	1		5	1	3	1	5	
12 AND LESS - - - - -	163	154	464	522	1,303	157	155	464	524	1,300
TOTAL - - - - -	1,243	159	492	544	2,438	1,245	159	493	544	2,441
ASHLAND HARBOR, WIS.										
TOTAL, 23 AND LESS - - - - -	13				13	13			13	
BAYFIELD HARBOR, WIS.										
TOTAL, 6 AND LESS - - - - -	806				806	806			806	
BEAVER BAY HARBOR, MINN.										
TOTAL, 5 AND LESS - - - - -	174				174	176			176	
CHEPPENA HARBOR (ISLE ROYALE), MICH.		NO VESSEL TRIPS REPORTED								
CORNUCOPIA HARBOR, WIS.										
TOTAL, 5 AND LESS - - - - -	289				289	289			289	
GRAND MARAIS HARBOR, MINN.										
TOTAL, 5 AND LESS - - - - -	76				76	76			76	
KNIFE RIVER HARBOR, MINN.		NO VESSEL TRIPS REPORTED								
LA POINTE HARBOR, WIS.		NO VESSEL TRIPS REPORTED								
LUTSEN HARBOR, MINN.		NO VESSEL TRIPS REPORTED								
PORT WING HARBOR, WIS.										
TOTAL, 5 AND LESS - - - - -	254				254	254			254	
WARROAD HARBOR, MINN.		NO VESSEL TRIPS REPORTED								
TACONITE HARBOR, MINN.										
TOTAL, 28 AND LESS - - - - -	151		2		155	148	1	2	153	

# Waterborne Commerce of the United States, 1987

## CHICAGO, IL, DISTRICT

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION									
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL				
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER			
													INBOUND		OUTBOUND	
MAUKESAN HARBOR, ILL.																
28 -	1					1								1		
23 -							1							1		
20 -	2					2								2		
19 -	5					5								5		
18 -	30					30								30		
17 -	16					16								16		
16 -	4					4								4		
15 -	1					1								1		
14 -	1					1								1		
13 -							24							24		
12 AND LESS -	1					1	18							18		
TOTAL -	61					61	60							60		
													UPBOUND		DOWNBOUND	
CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.																
21 -							4	1						6		
20 -	2					2	1							1		
19 -	1					1	1							1		
18 -	1	1				2										
17 -	3	1				4										
16 -			9			9				5				5		
15 -			2	1	1	4				2				2		
14 -						1										
13 -	3					3										
12 AND LESS -			361	1,084	100	1,545	3			364	1,084	102		1,553		
TOTAL -	10	2	372	1,085	102	1,571	9	1	371	1,085	102			1,568		
													UPBOUND		DOWNBOUND	
CHICAGO RIVER, SOUTH BRANCH, ILL.																
TOTAL, 12 AND LESS -	9	1	373	1,490	101	1,974	8	1	372	1,489	103			1,973		
													UPBOUND		DOWNBOUND	
CHICAGO SANITARY AND SHIP CANAL, ILL.																
TOTAL, 12 AND LESS -	12		2,202	7,312	2,185	11,711	11		2,201	7,313	2,185			11,710		
													UPBOUND		DOWNBOUND	
CALUMET-SAG CHANNELS, ILL.																
9 -			254	1,691	304	2,229	3		212	901	457			1,573		
8 -	4		192	89	116	401			193	103	14			310		
7 -			134	27	6	167	4		130	36	13			185		
6 -	7		31	24	2	64	4		56	13	11			84		
5 -				8		8				5	6			11		
4 -				22	2	24				2	1			3		
3 -				3	28	31				1	3			4		
2 -				336	416	752				1,111	380			1,491		
1 -				15	24	39				41	12			53		
TOTAL -	11		591	2,215	898	3,715	11		591	2,215	897			3,714		
													INBOUND		OUTBOUND	
LAKE CALUMET, ILL.																
27 -		3				3										
26 -	2	1				3	1							1		
25 -	1	4				5		2						2		
24 -		2				2	1	1						2		
23 -	1	1				2	1	1						2		
22 -	14	7				21		1						1		
21 -	3	2				5	1	2						3		
20 -	2	6				8	2	4						6		
19 -		2				2	1	4						5		
18 -	2					2	1	1						2		
17 -	2					2	3	1						4		
16 -	1		38			39	2	2	38					42		
15 -	3					3	8							8		
14 -							6							6		
12 AND LESS -	4		69	241	209	523	5	8	69	241	209			532		
TOTAL -	35	28	107	241	209	620	34	27	107	241	209			618		
													EASTBOUND		WESTBOUND	
CALUMET HARBOR AND RIVER, ILL. AND IND.																
28 -							5							5		
27 -	19					19	41	4						45		
26 -	22					22	47	3						50		
25 -	9	2				11	21	4						25		
24 -	15	1				16	22	4						26		
23 -	19	2				21	32	5						37		
22 -	18	4		2	1	25	43	11						54		
21 -	50	4		1		55	33	4						57		
20 -	64	9				73	34	7						81		
19 -	46	7				53	21	4						57		
18 -	35	4				39	22	1						40		
17 -	9	3	1			13	19							20		
16 -	7	6	68			81	6		66	2	1			75		
15 -	8		5			13	5		4	1				11		
14 -	6			1		7	6							9		
13 -	144					145	8		1					146		
12 AND LESS -	156	11	505	2,391	274	3,337	261	6	509	2,392	272			3,440		
TOTAL -	627	53	580	2,395	275	3,930	626	53	580	2,395	275			3,929		

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)											
PORT OF CHICAGO, ILL.											
28 -	5			INBOUND		5			OUTBOUND		
27 -	42	4				46	19				19
26 -	48	3				51	22				22
25 -	21	4				25	9	2			11
24 -	22	4				26	15	1			16
23 -	33	5				38	19	2			21
22 -	45	11				56	18	4			25
21 -	34	5		1		40	51	4	2	1	56
20 -	35	7				42	66	9	1		75
19 -	16	4				20	54	7			61
18 -	18	1				19	39	6			45
17 -	18				1	19	12	4	1		17
16 -	6		75	3	1	85	7	6	81		94
15 -	5		6		1	12	8		8		10
14 -	1			1		2	11			1	14
13 -	28		1		1	30	124	1		1	126
12 AND LESS -	663	7	2,321	7,213	2,168	12,372	568	10	2,313	7,223	2,167
TOTAL -	1,040	55	2,403	7,218	2,172	12,888	1,042	55	2,404	7,228	12,901
ILLINOIS WATERWAY, ILL.											
20 -	1			UPBOUND		4			DOWNBOUND		
19 -	1			3		1	1				4
18 -	1	1				2			1		1
17 -	3					3					1
16 -			2			2					12
15 -			2		1	3			12		2
14 -					1	1			2		
13 -					11	11	3			1	4
12 AND LESS -	12		4,051	18,918	3,653	26,634	10		4,042	18,921	3,665
TOTAL -	18	1	4,055	18,921	3,666	26,661	18		4,056	18,922	3,666
INDIANA HARBOR, IND.											
29 -	92			INBOUND		94	2		OUTBOUND		2
28 -	59			2		59	2				2
27 -	119		2			121	1		2		3
26 -	59					59	1				1
25 -	4					4	3				3
24 -	1					1	9				9
23 -						37				2	39
22 -	9	2				11	63			4	67
21 -	8				1	9	29			36	65
20 -	5				3	8	142	1		16	159
19 -		1			1	2	21	35		2	58
18 -						21	2	2		1	24
17 -						2					20
16 -			95		5	100	6		92	18	116
15 -			16		8	24			21	3	24
14 -			4		41	45			5		5
13 -	27					27	14				14
12 AND LESS -	2	37	193	250	182	664	31	1	191	250	143
TOTAL -	385	40	310	252	241	1,228	384	39	311	252	241
BURNS WATERWAY HARBOR, IND.											
29 -	1			INBOUND		1			OUTBOUND		
28 -	32					32	1				1
27 -	48					48	4				4
26 -	44					46	3				3
25 -	33	2				33	5				5
24 -	6					6	9				9
23 -	3					3	19	1			20
22 -	3					3	40	1			41
21 -	6					6	14				14
20 -	7					7	35				35
19 -	5					5	42				42
18 -	2					2	7				7
17 -	4					4	16				16
16 -	1					1	1				1
15 -											
14 -	56					56					
13 -	8		17	378	48	451	63		17	379	47
12 AND LESS -											
TOTAL -	259	2	17	378	48	704	259	2	17	379	47
CHICAGO HARBOR, ILL.											
TOTAL, 22 AND LESS -	410	1	37	INBOUND		452	412	1	37	OUTBOUND	
				3	1					1	1
MICHIGAN CITY HARBOR, IND.											
NO VESSEL TRIPS REPORTED											
BUFFINGTON HARBOR, IND.											
TOTAL, 28 AND LESS -	57			INBOUND		57	56			OUTBOUND	
GARY HARBOR, IND.											
TOTAL, 28 AND LESS -	199		16	INBOUND		402	199		16	OUTBOUND	
				183	4					183	3

# Waterborne Commerce of the United States, 1987

## DETROIT, MI, DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY				DIRECTION			DIRECTION					
DRAFT (FEET)	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
PRESQUE ISLE HARBOR, MICH.												
29				INBOUND						OUTBOUND		
28	8					4	2					2
27	13		3			16	49			1		80
26	9					9	10		3			52
25	1				2	3	5					10
24	26				1	27	47					5
23	94					94	85			2		47
22	34					34	9					87
21	16					16	1					9
20	32					32	9					1
19	39					39	15					9
18	45	1				46	11					15
17	9					9	4					11
16	9					9	6	1				8
15	2					2	1					9
14	2					2	1					1
12 AND LESS	2					2	1					1
TOTAL	337	1	3	3		344	336	1	3	3		343
MARQUETTE HARBOR, MICH.												
24				INBOUND						OUTBOUND		
23	7					7	1	1				2
22	9					9	4					4
21	5					5	2					2
20	4					4	7					7
19	1	1				2	3					3
18	1	1				1	4					4
17							1					1
16							3					3
12 AND LESS	198					198	198					198
TOTAL	224	2				226	223	1				224
ONTONAGON HARBOR, MICH.												
19	20			INBOUND						OUTBOUND		
18	1					1	8					8
17	1					1	2					2
16							8					8
4							2			1		2
3					1	1						1
TOTAL	22			1		23	20			1		21
ST. MARYS RIVER, MICH.												
29				UPBOUND						DOWNBOUND		
28	2					2	7			1		8
27	54		31			85	329		31	28		536
26	31					31	79			2		362
25	19					19	29					79
24	84			1		85	15					29
23	126			30		156	11					15
22	199					199	9					11
21	157					157	3					9
20	112					112	3					3
19	100					100	3					3
18	110					110	5					5
17	48					48	13					13
16	12					12						
15	8		9			8						
14	11					11			9			9
13							2					2
12 AND LESS	28,338		9	20		28,367	28,395		8	19		28,422
TOTAL	29,411		49	51		29,511	29,411		48	50		29,509
ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CANADA												
28	552			EASTBOUND						WESTBOUND		
27	319		31	29		581	2					2
26	66			2		352	54		31			85
25	3					66	31					31
24	8					3	19					19
23	10					8	81			1		82
22	8					10	118			23		141
21	1			7		15	168					168
20	1					1	151					151
19	2					1	104					104
18	5					2	85					85
17	13					5	103					103
16						13	48					48
15			9			9	12		9			12
14							4					4
13	2					2	11					11
12 AND LESS	6		2	11		19	5		2	25		32
TOTAL	996		42	49		1,087	996		42	49		1,087

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
DRUMMOND ISLAND, MICH.				INBOUND						OUTBOUND		
28							1					1
27							2					2
26							25					25
25	1					1	31					31
24	4					4	9					9
23	15					15	10					10
22	4					4	4					4
21	9					9	3					3
20	16					16	2					2
19	24					24	1					1
18	6					6						
17	1					1						
16	5					5						
15	2					2						
14												
13												
12 AND LESS	10,651		1			10,652	10,653		7			10,660
TOTAL	10,738		7			10,745	10,741		7			10,748
GRAYS REEF PASSAGE, MICH.				NORTHBOUND						SOUTHBOUND		
35				1		1						
28	2					2						
27	74		13			87						
26	53					53						
25	35	2				37						
24	76	1				77	1					1
23	125	3		13		141	3					3
22	152	6		1	1	160	4					4
21	117	4		1	7	129	2					2
20	146	10			1	157	5				1	6
19	125	32			2	159	9				1	14
18	102	8			1	111		4				
17	62	6	1		11	80						
16	36	7	47		12	102			4			4
15	12		14		11	37					2	2
14	4		3	1	2	10	41					41
13	77	1	1		1	79						
12 AND LESS	31	3	52	59	5	150						
TOTAL	1,229	82	131	76	54	1,572	65	4	4		4	77
TRAVERSE CITY HARBOR, MICH.				INBOUND						OUTBOUND		
14	3	5	36		33	77	3	1	34		34	72
12 AND LESS							4		1			5
TOTAL	3	5	36		33	77	3	5	35		34	77
LUDINGTON HARBOR, MICH.				INBOUND						OUTBOUND		
23	14					14	5	1				6
22	2	1				3	1	1				2
21	1					1	5					5
20	2	1				3	5					5
19	367					367	349					349
18	4					4	4					4
17	3		71			74	4		71			75
16	1	1				2						
15	1					1	1					1
13							21	1	17	5		44
12 AND LESS			17	5		22						
TOTAL	395	3	88	5		491	395	3	88	5		491
MUSKEGON HARBOR, MICH.				INBOUND						OUTBOUND		
27	2					2						
26	1					1	2					2
25	7					7						
24	6					6	1					1
23	10					10	12					12
22	27				2	29						
21	12				9	21	6					6
20	11				1	12	7					7
19	5	2				7	13				2	15
18					1	1	23				1	24
17	1				1	2	12					12
16			24		1	25	3		23		2	28
15					1	1	3				5	8
14			1		1	1	1		1		6	8
12 AND LESS			24	20	5	49		2	25	21	4	52
TOTAL	82	2	49	20	21	174	83	2	49	21	20	175
GRAND HAVEN HARBOR AND GRAND RIVER, MICH.				INBOUND						OUTBOUND		
23	23					23	31					31
22	13					13	5					5
21	17	2				19	5					5
20	22	2				24	15					15
19	5	6				11	4					4
18							13					13
17	2	1				3	2					2

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
GRAND HAVEN HARBOR AND GRAND RIVER, MICH.--(CONTINUED)				INBOUND					OUTBOUND			
16 -	1		7			8	2	1	7			10
15 -	6					6	5					5
14 -	1					1	11					11
13 -	4					4			10			10
12 AND LESS-												
TOTAL-	94	11	7			112	95	11	7			111
HOLLAND HARBOR, MICH.				INBOUND					OUTBOUND			
23 -	2					2	2					2
22 -	4					4						
21 -	10					10	3					3
20 -	4					4	5					5
19 -	3					3	3					3
18 -	2					2	2					2
17 -							2					2
16 -							2					2
15 -							1					1
14 -							5					5
13 -			1			1			1			1
12 -			1			1			1			1
11 -												
10 -												
9 -												
8 -												
TOTAL-	25		2			27	25		2			27
ST. JOSEPH HARBOR, MICH.				INBOUND					OUTBOUND			
23 -	8					8						
22 -	39					39						
21 -	14					14						
20 -	2					2	7					7
19 -							24					24
18 -							16					16
17 -			2			2	6		2			6
16 -							8					8
15 -							2					2
14 -							2		5	8		15
13 -			5	7		12						
12 AND LESS-												
TOTAL-	63		7	7		77	63		7	8		78
MILWAUKEE HARBOR, WIS.				INBOUND					OUTBOUND			
27 -	11		1			12	23					23
26 -	6					6	20					20
25 -	7					7	6					6
24 -	10					10	7					7
23 -	8					8	4					4
22 -	20					20	7					7
21 -	32					32	15					15
20 -	49					49	8			1		8
19 -	13					13	9					9
18 -	27					27	6					6
17 -	14					14	6					6
16 -	4					4	2					2
15 -	1					1	6					6
14 -	1					1	12					12
13 -							70					70
12 AND LESS-	320	4	10	24		358	316	12	12	25	1	367
TOTAL-	523	11	26	26	1	587	523	12	27	26	1	589
SHEBOYGAN HARBOR, WIS.				INBOUND					OUTBOUND			
21 -	29					29	28					28
20 -							29					29
19 -	1	2				3	1	1				2
18 -							8					8
17 -												
16 -												
15 -	35					35						
14 -												
13 -												
12 AND LESS-												
TOTAL-	65	2	14			81	66	2	14			82
GREEN BAY HARBOR, WIS.				INBOUND					OUTBOUND			
26 -	5					5						
25 -	4					4	2					2
24 -	6					6	1					1
23 -	12					12	3					3
22 -	29					29	5					5
21 -	33					33	11					11
20 -	17					17	18					18
19 -	13					13	14					14
18 -	4					4	26					26
17 -	2					2	16					16
16 -	1					1	8					8
15 -							4					4
14 -							4					4
13 -							1					1
12 AND LESS-	2					2	5					5
TOTAL-	128	7	11	2	9	157	128	7	10	1	9	156

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
ALPENA HARBOR, MICH.				INBOUND						OUTBOUND		
24 -	2					2	34					34
23 -	7					7	17					17
22 -	11					11	77					77
21 -	3					3	33					33
20 -	2					2	7					7
19 -	4	1				4	10	1			1	12
18 -	42					42	8		1			8
17 -	6					6	12		1			13
16 -							5					5
15 -		1				1	1		2			3
14 -		1	2			3						
13 -	62				1	63	2		1		1	4
12 AND LESS -	61		1		4	66		2			2	4
TOTAL -	207	3	3		6	219	206	4	3		5	218
SAGINAW RIVER, MICH.				INBOUND						OUTBOUND		
27 -	3					3	1					1
26 -	5					5						
25 -	28					28	1					1
24 -	23	1				23	4	2				6
23 -	96	1				99	14	3				17
22 -	37	2				39	10					10
21 -	23	3				26	15	1			1	17
20 -	17				1	18	47					47
19 -	10	5			1	16	22	8				30
18 -	1	1				2	41					41
17 -					2	2	38					38
16 -			32	2	1	35	17		31	1	2	49
15 -			1			1	9		2		1	13
14 -							3					3
13 -					1	1	14	2				16
12 AND LESS -		10	2	2	1	15	10	7	3	4	3	27
TOTAL -	245	23	35	4	7	314	246	23	36	5	7	317
ST. CLAIR RIVER, MICH.				UPBOUND						DOWNBOUND		
30 -	1					1				1		1
29 -							6					6
28 -	1					1	400			15		415
27 -	10		10			20	254		17	1		272
26 -	8					8	219					219
25 -	13					13	164					164
24 -	54					54	28					28
23 -	120	1		10		139	83					83
22 -	177					177	70					70
21 -	265			1	1	267	50				2	52
20 -	182	1			3	186	32	1				33
19 -	106				2	108	4					4
18 -	150					150	6					6
17 -	86				1	87	13				8	21
16 -	36		19		2	57	1		19		12	32
15 -	51		10			61			17		3	20
14 -	52		25		1	78			25		4	20
13 -	6				1	7					3	3
12 AND LESS -	12,823	4	39	35	73	12,974	12,811	5	34	37	52	12,939
TOTAL -	14,141	6	111	54	84	14,396	14,141	6	112	54	84	14,397
PORT HURON, MICH.				INBOUND						OUTBOUND		
26 -	11					11	2					2
25 -	8					8	2					2
24 -							1					1
22 -	4					4						
21 -	1					1	7					7
20 -	3					3	6					6
19 -	2					2	6					6
18 -	3					3	3					3
17 -	2					2	3					3
16 -	4					4	2		1			3
15 -	1		1			2	6					6
13 -							1		3			3
12 AND LESS -	1		2	2	1	6				3	1	5
TOTAL -	40		3	2	1	46	39		4	3	1	47
MARYSVILLE, MICH.				INBOUND						OUTBOUND		
27 -	3					3	1					1
26 -	4					4	2	1				3
25 -	4	1				5	2					2
24 -	3	1				4	1	1				2
23 -	2	1				3	3	1				4
22 -	4					4	2					2
21 -	5					5	6					6
20 -	7					7	7					7
19 -	4	1				5	5					5
18 -	5	1				6	5	1				6
17 -	1					1	2					2
16 -	1					1	1					1
15 -	1					1	6	1				7



## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
DRAFT (FEET)										
MARYSVILLE, MICH.--(CONTINUED)				INBOUND					OUTBOUND	
14 - - - - -			2			2		2		2
13 - - - - -				7	5	20	2	6	7	5
12 AND LESS- - - - -			8						7	5
TOTAL- - - - -	44	5	10	7	5	71	44	5	10	71
ST. CLAIR, MICH.				INBOUND					OUTBOUND	
27 - - - - -	139					139				20
26 - - - - -	9					9	20			2
25 - - - - -	1					2	2			
24 - - - - -	2					2	36			36
23 - - - - -	2					2	12			12
22 - - - - -	1					1	3	1		4
21 - - - - -	2					2	37			37
20 - - - - -	5					5	16			16
19 - - - - -	2					2	25			25
18 - - - - -							7			7
17 - - - - -							2	2		4
16 - - - - -							1			1
15 - - - - -			2			2			33	33
14 - - - - -			32			34			5	60
13 - - - - -			5		60	65				65
12 AND LESS- - - - -										
TOTAL- - - - -	163		41		60	264	161	41		60
MARINE CITY, MICH.				INBOUND					OUTBOUND	
27 - - - - -	2					2				
26 - - - - -	5					6				
25 - - - - -	10					10				1
24 - - - - -	1					1	1			2
23 - - - - -	2					2	2			2
22 - - - - -	1					1	2			6
21 - - - - -							6			4
20 - - - - -							4			3
19 - - - - -							3			
18 - - - - -	1					1	2			2
17 - - - - -							4			4
16 - - - - -							3			
15 - - - - -							2			
14 - - - - -							4			
13 - - - - -							3			
12 AND LESS- - - - -							2			
TOTAL- - - - -	10,330					10,330	10,330			10,330
CHANNLES IN LAKE ST. CLAIR				UPBOUND					DOWNBOUND	
28 - - - - -	2					2	307		16	323
27 - - - - -	6		18			24	211	17	1	229
26 - - - - -	8					8	213			213
25 - - - - -	13					13	137			137
24 - - - - -	54					54	27			27
23 - - - - -	83	1		18		102	81			81
22 - - - - -	171					171	80			80
21 - - - - -	252			1	1	254	50			50
20 - - - - -	142	1			3	146	34	1		35
19 - - - - -	81				1	82	4			4
18 - - - - -	136					136	6			6
17 - - - - -	76				1	77	13		6	21
16 - - - - -	32		17		2	51	2	17	12	31
15 - - - - -	39		10			49		16	3	19
14 - - - - -	52		38		1	91		38	4	42
13 - - - - -	6				1	7				
12 AND LESS- - - - -	12	4	39	35	80	170	1	5	34	138
TOTAL- - - - -	1,165	6	122	54	90	1,437	1,166	6	122	54
DETROIT RIVER, MICH.				UPBOUND					DOWNBOUND	
29 - - - - -	1					1	5		1	6
28 - - - - -	3					3	281		15	296
27 - - - - -	7		18			25	219	17	1	237
26 - - - - -	9					9	213			213
25 - - - - -	11					11	143			143
24 - - - - -	56					56	27			27
23 - - - - -	95	1		18		114	82	2		84
22 - - - - -	187	1				188	84	1		85
21 - - - - -	272			1	1	274	55			55
20 - - - - -	159				3	162	35	23		58
19 - - - - -	93				1	94	11	7		18
18 - - - - -	115				1	115	23			23
17 - - - - -	73				1	74	31		11	42
16 - - - - -	33		19		3	55	5	20	27	52
15 - - - - -	48		19			67	2	23	3	28
14 - - - - -	41		37		1	79	1	37	4	42
13 - - - - -	3				1	4				
12 AND LESS- - - - -	12	35	67	84	114	312	1	5	66	237
TOTAL- - - - -	1,218	37	160	103	125	1,643	1,218	36	163	103
DETROIT HARBOR, MICH.				INBOUND					OUTBOUND	
28 - - - - -	38			1		39				2
27 - - - - -	15					16	1		1	
26 - - - - -	58	1				59	19	2		21

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
DETROIT HARBOR, MICH.--(CONTINUED)												
25 -	26	1				27	6					6
24 -	27					27	14	1				15
23 -	16	1				17	27			1		28
22 -	29			1		30	27	1				28
21 -	29	1				30	76	3				79
20 -	27	2				29	28					28
19 -	19					19	30					30
18 -	11	1				12	38					38
17 -	7		1			8	19		3			22
16 -	14		3			17	19		3		1	23
15 -	12		4		1	17	6					6
14 -	8					8	29		2	3		34
13 -	11					11	15	1	1	1		17
12 AND LESS-	23		62	16	25	126	15		63	12	26	116
TOTAL-	370	7	71	18	26	492	369	7	73	17	27	493
ROUSE RIVER, MICH.												
25 -	208					208	14					14
24 -	12					12	9					9
23 -	29					29	20	1				21
22 -	35					35	25					25
21 -	26	1				27	55				1	56
20 -	21	1				22	41	27			3	71
19 -	8					8	37	5			1	43
18 -	9					9	57	1				58
17 -	5				9	14	34				5	39
16 -	4	5	20		13	42	9		20	1	14	45
15 -	1		22		3	26	28	1	19		1	49
14 -	1		52		2	55	5		52			57
13 -	3					3	7		3		1	11
12 AND LESS-	1	30	166	197	130	524	15	1	167	197	131	511
TOTAL-	363	37	260	197	157	1,014	356	37	261	198	157	1,009
TRENTON, MICH.												
28 -	32					32						
27 -	9					9						
26 -	6					6						
25 -	1					1	2					2
24 -	1					1	4					4
23 -	2					2	2	3				5
22 -							3	4				7
21 -	2					2	2					2
20 -							3					3
19 -							20	1				21
18 -					1	1	17					17
17 -	1				2	3	4				1	5
16 -		1				1	1	1			1	3
15 -			2		2	4	1		2			3
14 -	5	1	1			7			1			1
13 -			4			4			4			4
12 AND LESS-	7	1			3	11					5	5
TOTAL-	59	9	8		8	84	59	9	7		7	82
PORT OF DETROIT, MICH.												
28 -	94					95						
27 -	60		1			61	3		1			4
26 -	150	1				151	32	2				34
25 -	95	1				96	17					17
24 -	49					49	32	1				33
23 -	50	1				51	52	4		1		57
22 -	68					69	60	5				65
21 -	66	2		1		68	149	3			1	153
20 -	52	4				56	78	27			3	108
19 -	28					28	92	8			1	101
18 -	24	1			1	26	121	1				122
17 -	15		1		11	27	55		3		6	64
16 -	24	4	23		13	44	33	2	21	1	15	72
15 -	15		28		5	48	35	1	17			54
14 -	14	1	55		2	72	39		54	3		96
13 -	17		6			23	22		8		1	32
12 AND LESS-	25	38	266	265	149	743	25		276	262	155	718
TOTAL-	846	53	380	267	181	1,727	845	54	380	268	183	1,730
MONROE HARBOR, MICH.												
21 -	38					38	8					8
20 -	3					3						
19 -	4					4	4					4
18 -							3					3
17 -	1					1	2					3
16 -	9					9	11			1		11
15 -	9					9	14					14
14 -	1					1	22					22
13 -				1		1			2	1		3
12 -						1			6			6
10 -			7			7						
6 -			2	1		2						

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
DRAFT (FEET)										
MONROE HARBOR, MICH.--(CONTINUED)				INBOUND					OUTBOUND	
5 - - - - -				1					1	
4 - - - - -				2					2	
3 - - - - -				1					1	
2 - - - - -				2					2	
TOTAL - - - - -	65		9	8		82	64	8	8	80
ALGOMA HARBOR, MICH.				NO VESSEL TRIPS REPORTED						
ALGONAC, MICH.				INBOUND					OUTBOUND	
TOTAL, 22 AND LESS - - - - -	2,480					2,480	2,481			2,481
AN SABLE HARBOR AND RIVER (OSCODA), MICH.				NO VESSEL TRIPS REPORTED						
BIG BAY HARBOR, MICH.				NO VESSEL TRIPS REPORTED						
BLACK RIVER HARBOR, MICH.				NO VESSEL TRIPS REPORTED						
CASEVILLE, MICH.				NO VESSEL TRIPS REPORTED						
CDAR RIVER HARBOR, MICH.				NO VESSEL TRIPS REPORTED						
CHARLEVOIX HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 23 AND LESS - - - - -	284		2			286	284	2		286
CHEBOYGAN HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 21 AND LESS - - - - -	2	6	35	6	27	76	2	5	34	74
DETOUR, MICH., AND VICINITY				INBOUND					OUTBOUND	
TOTAL, 18 AND LESS - - - - -	10,656		6			10,662	10,653	6		10,659
DETROIT HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 9 AND LESS - - - - -	3,524					3,524	3,524			3,524
EAGLE HARBOR, MICH.				NO VESSEL TRIPS REPORTED						
ECORSE, MICH.				INBOUND					OUTBOUND	
TOTAL, 20 AND LESS - - - - -	64	1	28	20	16	129	64	1	29	131
FRANKFORT HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 17 AND LESS - - - - -			13	1	11	25		13	1	11
GLADSTONE HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 23 AND LESS - - - - -	4		2		2	8	4	2	2	8
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MICH.				NO VESSEL TRIPS REPORTED						
GRAND TRAVERSE BAY HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 5 AND LESS - - - - -	12					12	12			12
HARBOR BEACH, MICH., HARBOR OF REFUGE, LAKE HURON				INBOUND					OUTBOUND	
TOTAL, 21 AND LESS - - - - -	9					9	9			9
HARRISVILLE HARBOR, MICH., HARBOR OF REFUGE, LAKE HURON				NO VESSEL TRIPS REPORTED						
KENOSHA HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 26 AND LESS - - - - -	9		2	2		13	9	2	2	13
KENAUWEE HARBOR, MICH.				INBOUND					OUTBOUND	
TOTAL, 19 AND LESS - - - - -	367		1	3		371	368	1	2	371
KENEENAW WATERWAY, MICH.				EASTBOUND					WESTBOUND	
TOTAL, 24 AND LESS - - - - -	146		21	28	3	158	147	20	27	3
LAC LA BELLE HARBOR, MICH.				NO VESSEL TRIPS REPORTED						

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
LELAND HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							
LEME ISLAND, MICH.				NO VESSEL TRIPS	REPORTED							
MACKINAC HARBOR, MICH. TOTAL, 23 AND LESS - - - - -	3,754		8	INBOUND 5		3,767	3,754		9	OUTBOUND 6		3,769
MACKINAW CITY HARBOR, MICH. TOTAL, 21 AND LESS - - - - -		27	2	INBOUND 2		31		27	2	OUTBOUND 2		31
MANISTEE HARBOR, MICH. TOTAL, 23 AND LESS - - - - -	18		3	INBOUND 3		24	18		3	OUTBOUND 3		24
MANISTIQUE HARBOR, MICH. TOTAL, 18 AND LESS - - - - -	4			INBOUND		4	3			OUTBOUND		3
MANITOWOC HARBOR, WIS. TOTAL, 22 AND LESS - - - - -	13	9	11	INBOUND		33	12	9	9	OUTBOUND		30
MENOMINEE HARBOR AND RIVER, MICH. AND WIS. TOTAL, 22 AND LESS - - - - -	11		1	INBOUND		12	10		1	OUTBOUND		11
NEW BUFFALO HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							
ONONTO HARBOR, WIS.				NO VESSEL TRIPS	REPORTED							
PENSAUKEE HARBOR, WIS.				NO VESSEL TRIPS	REPORTED							
PENTWATER HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							
PORT SANILAC HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							
PORT WASHINGTON HARBOR, WIS. TOTAL, 21 AND LESS - - - - -	7			INBOUND		7	7			OUTBOUND		7
POT-IN-BAY HARBOR, OHIO TOTAL, 7 AND LESS - - - - -	5,387			INBOUND		5,387	5,386			OUTBOUND		5,386
RACINE HARBOR, WIS.				NO VESSEL TRIPS	REPORTED							
ROGERS CITY, MICH.				NO VESSEL TRIPS	REPORTED							
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MICH. TOTAL, 8 AND LESS - - - - -	393			INBOUND		393	393			OUTBOUND		393
SAULT STE. MARIE, MICH. TOTAL, 26 AND LESS - - - - -	15,901		16	INBOUND 8		15,925	15,901		15	OUTBOUND 9		15,925
SEBENAING, MICH.				NO VESSEL TRIPS	REPORTED							
SOUTH HAVEN HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							
ST. JAMES (BEAVER ISLAND), MICH. TOTAL, 11 AND LESS - - - - -	272	1		INBOUND		273	272	1		OUTBOUND		273
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WIS. TOTAL, 25 AND LESS - - - - -	8	2	7	NORTHBOUND 7		24	8	2	7	SOUTHBOUND 5		22
TWO RIVERS HARBOR, WIS. TOTAL, 16 AND LESS - - - - -			4	INBOUND		4			4	OUTBOUND		4
WHITE LAKE HARBOR, MICH. TOTAL, 23 AND LESS - - - - -	1			INBOUND		1	1			OUTBOUND		1
WHITEFISH POINT HARBOR, MICH.				NO VESSEL TRIPS	REPORTED							

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
DRAFT (FEET)	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
MYANDOTTE, MICH. TOTAL, 22 AND LESS - - - - -	7		30	32	INBOUND	69	7		30	32	OUTBOUND	69
ALABASTER, MICH. TOTAL, 22 AND LESS - - - - -	52				INBOUND	52	52				OUTBOUND	52
CALCITE, MICH. TOTAL, 28 AND LESS - - - - -	435	1	4	2	INBOUND	442	435	1	3	2	OUTBOUND	441
ESCANABA, MICH. TOTAL, 30 AND LESS - - - - -	153	16	19	2	INBOUND	207	154	17	19	2	OUTBOUND	209
MARBLEHEAD, OHIO TOTAL, 23 AND LESS - - - - -	3,891		27	31	INBOUND	3,949	3,893		26	31	OUTBOUND	3,950
PORT DOLOMITE, MICH. TOTAL, 28 AND LESS - - - - -	162		22	27	INBOUND	211	162		25	28	OUTBOUND	215
PORT GYPSUM, MICH. TOTAL, 23 AND LESS - - - - -	30				INBOUND	30	29				OUTBOUND	29
PORT INLAND, MICH. TOTAL, 26 AND LESS - - - - -	151		10	16	INBOUND	177	152		11	16	OUTBOUND	179
STONEPORT, MICH. TOTAL, 29 AND LESS - - - - -	339				INBOUND	339	340				OUTBOUND	340

# BUFFALO, NY, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
DRAFT (FEET)										
<b>TOLEDO HARBOR, OHIO</b>										
28	54	1		INBOUND		55	7	1	OUTBOUND	
27	82					82	128			8
26	68	1				69	48			128
25	54					54	32			48
24	55	1				56	89	1		32
23	108					108	93	3		90
22	62	3				65	111	2		96
21	64	1				65	142	2		113
20	47	6				53	85	6		144
19	41	1				42	43	3		91
18	78					78	13	2		46
17	48			1		49	25	2	2	15
16	32	4	8			44	11	1	1	29
15	24	2	4			30	4	1	1	21
14	30		20	2	2	54	11	20	1	9
13	5					5	1		1	33
12 AND LESS	17	6	548	512	33	26	3	548	511	34
TOTAL	869	26	580	515	35	2,025	869	27	579	2,028
<b>SANDUSKY HARBOR, OHIO</b>										
26	3			INBOUND		3	81		OUTBOUND	
25	5					5				81
24	16					16	2			2
23	43					43	1			1
22	22					22	8			8
21	18					18	18			18
20	7					7	11			11
19	11					11	7			7
18	11					11	7			7
17	8					8	3			3
16	8					8				
15	1					1	12			12
14	2					2				
12 AND LESS	2,603		1			2,604	2,608	1		2,609
TOTAL	2,758		1			2,759	2,758	1		2,759
<b>MURON HARBOR, OHIO</b>										
27	6			INBOUND		6	1		OUTBOUND	
26	12					12	1			1
25							1			1
24	1					1	3			3
23	2					2	3			3
22	3					3	4			4
21	4					4	1			1
20	2					2	10			10
19	1					1	5			5
18							1			1
16							2			2
15							1			1
14	3					3				
12 AND LESS	4					4	4			4
TOTAL	38					38	37			37
<b>LORAIN HARBOR, OHIO</b>										
29	2			INBOUND		2			OUTBOUND	
28	89			3		92	2			2
27	62		4	1		67	6			10
26	12					12	100	4		100
25	8					8	41			128
24	5					5	41			41
23	31					31	22			45
22	11					11	24			22
21	8					8	34			26
20	46					46	17			34
19	18					18	20			17
18	21					21	2			20
17	143					143	9			2
16	2					2	8			9
15							23			8
14							165			23
12 AND LESS	186					186				165
TOTAL	644		4	4		652	642	4	4	650
<b>CLEVELAND HARBOR, OHIO</b>										
29	1			INBOUND		2			OUTBOUND	
28	22			1		32	7			7
27	3		11	10		14	3			14
26	242	1				243	53	11		53
25	292					292	27			27
24	73	1				74	31	2		33
23	62	2				64	43	2	11	56
22	56	2				58	24			24
21	27	1				28	41	1	1	43
20	33	10				43	129	3		132
19	33	3				36	69			69
18	13	1				14	66			66

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	
CLEVELAND HARBOR, OHIO--(CONTINUED)												
17 -	18			INBOUND		22	205	1		OUTBOUND		206
16 -	3		11	1	7	22	22	1			5	39
15 -	3		9	2		14	56		11			66
14 -			2		2	4	11		2			13
13 -					1	1	1					1
12 AND LESS -	1	7	55	2	25	90	3	17	55	3	33	111
TOTAL -	792	28	88	16	39	963	791	27	88	15	38	960
FAIRPORT HARBOR, OHIO												
27 -	2			INBOUND		2	4			OUTBOUND		4
26 -	26					26	1					1
25 -	20					20	4					4
24 -	14					14	13					13
23 -	18					18	9					9
22 -	6					6	10					10
21 -	9					9	8					8
20 -	2					2	6					6
19 -							5					5
18 -	4					4	16					16
17 -	3					3	9					9
16 -	8					8	8					8
15 -							19					19
12 AND LESS -	262					262	261					261
TOTAL -	374					374	373					373
ASHTABULA HARBOR, OHIO												
29 -	6			INBOUND		6	54			OUTBOUND		54
28 -	28			1		29	38					38
27 -	31					32	39		1			40
26 -	14					14	10					10
25 -	23					23	11					11
24 -	72					72	11					11
23 -	61					61	19			1		20
22 -	12					12	36					36
21 -	8					8	32					32
20 -	16					16	21					21
19 -	5					5	16					16
18 -	21					21	15					15
17 -	14					14	8					8
16 -	6					6	10					10
15 -	2					2						
14 -							1					1
13 -				1		3	1					1
12 AND LESS -	2		3	11		14	1		4	12		17
TOTAL -	323		4	13		340	323		5	13		341
CONNEAUT HARBOR, OHIO												
28 -	17			INBOUND		17	103			OUTBOUND		103
27 -	28					28	30					30
26 -	21					21	8					8
25 -	28					28	4					4
24 -	47					47	11					11
23 -	58					58	9					9
22 -	10					10	12					12
21 -	13					13	26					26
20 -	16					16	24					24
19 -	2					2	5					5
18 -	3					3	12					12
17 -	7					7	2					2
16 -							3					3
15 -							2					2
14 -	1					1						
TOTAL -	251					251	251					251
ERIE HARBOR, PA.												
28 -				INBOUND			1			OUTBOUND		1
27 -	2					2			1			1
26 -	6					6	4					4
25 -	8					8	1					1
24 -	14					14	4					4
23 -	7					7	2			1		3
22 -	6					6	1					1
21 -	9					9	5					5
20 -	1					1	1					1
19 -	2					2	4					4
18 -	4					4	13					13
17 -	1					1	5					5
16 -	1					1	2					2
15 -	1					1	19					19
14 -	149			1		150	150					150
13 -	11					11	11					11
12 AND LESS -	1,023		4	3		1,030	1,021		4	2		1,027
TOTAL -	1,245		5	3		1,253	1,244		5	3		1,252

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
BUFFALO HARBOR, N. Y.												
27 - - - - -	6					6	1					1
26 - - - - -	3					3	1					1
25 - - - - -	3					3	2	1				3
24 - - - - -	11	1				12	1					1
23 - - - - -	16	4				20	1					1
22 - - - - -	5	2				7	4	2				6
21 - - - - -	5					5	3					3
20 - - - - -	11	2				13	6					6
19 - - - - -	4	4				8	7	1				8
18 - - - - -	6	4				10	21	1				22
17 - - - - -	18				1	19	34	4				38
16 - - - - -	2				1	3	7	6				13
15 - - - - -	2		3			5	1	2	3		2	8
14 - - - - -	1		1			2	1	1	1			3
13 - - - - -	1					1	1	1	1			1
12 AND LESS - - - - -	8	5	15	6	3	37	9	5	15	6	3	38
TOTAL - - - - -	101	23	19	6	5	154	100	23	19	6	5	153
NIAGARA RIVER, N. Y.												
21 - - - - -	2	1				3	2					2
20 - - - - -	4	19				23						
19 - - - - -	2	6				8	1					1
18 - - - - -	1	1				2	4	1				5
17 - - - - -	1	1				2	3					3
16 - - - - -	1		1			2	1	1				2
12 AND LESS - - - - -	1			1		2	1	27	1	1		29
TOTAL - - - - -	10	28	1	1		40	11	29	1	1		42
PORT OF BUFFALO, N. Y.												
28 - - - - -							1					1
27 - - - - -	6					6	1					1
26 - - - - -	3					3	1					1
25 - - - - -	3					3	2	1				3
24 - - - - -	11	1				12	1					1
23 - - - - -	16	4				20	1					1
22 - - - - -	7	4				11	2					2
21 - - - - -	10	2				12	1					1
20 - - - - -	15	21				36	6					6
19 - - - - -	5	10				15	9	1				10
18 - - - - -	4	5				9	27	2				29
17 - - - - -	17	1			1	19	38	4				42
16 - - - - -	2		1		1	4	9	7				16
15 - - - - -	1		3			4	1	2	3		2	8
14 - - - - -	1		1			2	1	1	1			3
13 - - - - -	1					1	1					1
12 AND LESS - - - - -	8	2	15	7	3	35	9	33	15	7	3	67
TOTAL - - - - -	110	50	20	7	5	192	111	51	19	7	5	193
OSWEGO HARBOR, N. Y.												
26 - - - - -	2					2						
25 - - - - -	1					1						
24 - - - - -	2					2						
23 - - - - -	5					5	1					1
22 - - - - -	24	5				29	2					2
21 - - - - -	27	10				37	2	1				3
20 - - - - -	14	10				24	26	3				29
19 - - - - -	12	6				18	33	10				43
18 - - - - -	9	2				11	27	13				40
17 - - - - -	2	2				4	7	3				10
16 - - - - -			1	1		2						
15 - - - - -												
14 - - - - -												
13 - - - - -												
12 AND LESS - - - - -	97		5	25	9	136	90	3	4	26	9	131
TOTAL - - - - -	195	35	6	26	9	271	188	35	4	26	9	262
BARCELONA HARBOR, N. Y.												
			NO VESSEL TRIPS	REPORTED								
CAPE VINCENT, N. Y.												
			NO VESSEL TRIPS	REPORTED								
DUNKIRK HARBOR, N. Y.												
			NO VESSEL TRIPS	REPORTED								
GREAT SODUS BAY HARBOR, N. Y.												
			NO VESSEL TRIPS	REPORTED								
KELLEYS ISLAND, OHIO												
TOTAL, 7 AND LESS - - - - -	4,143					4,143	4,143					4,143
NIAGARA FALLS, N. Y.												
TOTAL, 7 AND LESS - - - - -	4	12	1			18	2	12	1			16



## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY				DIRECTION			DIRECTION					
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
OGDENSBURG HARBOR, N. Y. TOTAL, 20 AND LESS - - - - -	20		1	IMBOUND		21	19		1	OUTBOUND		20
PORT CLINTON HARBOR, OHIO TOTAL, 10 AND LESS - - - - -	2,108			IMBOUND		2,108	2,109			OUTBOUND		2,109
ROCHESTER (CHARLOTTE) HARBOR, N. Y. TOTAL, 20 AND LESS - - - - -	50		1	IMBOUND		51	50		1	OUTBOUND		51
SACKETT HARBOR, N. Y.				NO VESSEL TRIPS REPORTED								
TONAWANDA HARBOR, N. Y.				NO VESSEL TRIPS REPORTED								
VERMILION HARBOR, OHIO				NO VESSEL TRIPS REPORTED								
WADDINGTON HARBOR, N. Y.				NO VESSEL TRIPS REPORTED								

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HARBOR OR WATERWAY				DIRECTION			DIRECTION					
DRAFT (FEET)	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
ILLINOIS RIVER, ILL.				UPBOUND						DOWNBOUND		
9	1		1,259	6,451	2,056	9,767	1		1,246	4,214	883	11,344
8			665	1,923	327	2,915			666	3,011	121	3,798
7			666	95	42	803			674	94	21	789
6	3		303	62	37	405	3		303	53	24	383
5			125	36	7	168			125	34	5	164
4				24	3	27				23	39	62
3				15	1	16				14	160	174
2	1		18	8,685	660	9,364	1		18	4,851	1,823	6,693
1			11	208	16	235			9	206	75	290
TOTAL	5		3,047	17,499	3,149	23,700	5		3,041	17,500	3,151	23,697

A		F	
Alabaster, Mich. ....	48, 74	Fairport Harbor, Ohio .....	52, 76
Algoma Harbor, Wis. ....	46, 72	Frankfort Harbor, Mich. ....	46, 72
Algonac, Mich. ....	46, 72	Freight Tons Carried on Great Lakes by Areas -	XIII
Alpena Harbor, Mich. ....	30, 69	G	
Ashland Harbor, Wis. ....	5, 63	Gary Harbor, Ind. ....	20, 65
Ashtabula Harbor, Ohio .....	52, 76	Gladstone Harbor, Mich. ....	46, 72
Au Sable Harbor and River		Grand Haven Harbor and Grand River,	
(Oscoda), Mich. ....	46, 72	Mich. ....	27, 67
B		Grand Marais Harbor (Harbor of Refuge),	
Barcelona Harbor, N. Y. ....	57, 77	Mich. ....	46, 72
Bayfield Harbor, Wis. ....	5, 63	Grand Marais Harbor, Minn. ....	5, 63
Beaver Bay Harbor, Minn. ....	5, 63	Grand Traverse Bay Harbor .....	46, 72
Big Bay Harbor, Mich. ....	46, 72	Grays Reef Passage, Mich. ....	25, 67
Black River Harbor, Mich. ....	46, 72	Great Sodus Bay Harbor, N. Y. ....	57, 77
Buffalo, N. Y., Port of .....	55, 77	Green Bay Harbor, Wis. ....	30, 68
Buffalo Harbor, N. Y. ....	54, 77	H	
Niagara River, N. Y. ....	55, 77	Harbor Beach (Harbor of Refuge),	
Tonawanda Harbor, N. Y. ....	57, 78	Mich. ....	46, 72
Buffington Harbor, Ind. ....	20, 65	Harrisville Harbor, Mich. ....	46, 72
Burns Waterway Harbor, Ind. ....	18, 65	Holland Harbor, Mich. ....	28, 68
C		Huron Harbor, Ohio .....	50, 75
Calcite, Mich. ....	48, 74	I	
Calumet Harbor and River, Ill. and Ind. ....	11, 64	Illinois River, Ill. ....	58, 79
Calumet-Sag Channel, Ill. ....	9, 64	Illinois Waterway, Ill. (Consolidated-	
Cape Vincent Harbor, N. Y. ....	57, 77	entire Waterways) .....	16, 65
Caseville, Mich. ....	46, 72	Calumet-Sag Channel, Ill. ....	9, 64
Cedar River Harbor, Mich. ....	46, 72	Chicago River (South Branch), Ill. ....	7, 64
Channels in Lake St. Clair, Mich. ....	36, 70	Chicago Sanitary and Ship Canal, Ill. ....	8, 64
Charlevoix Harbor, Mich. ....	46, 72	Illinois River, Ill. ....	58, 79
Cheboygan Harbor, Mich. ....	46, 72	Indiana Harbor, Ind. ....	17, 65
Chicago Area, Summary of Traffic .....	16	Introduction .....	VII
Chicago Harbor, Ill. ....	20, 65	K	
Chicago, Ill., Port of .....	13, 65	Kelleys Island, Ohio .....	57, 77
Calumet Harbor and River, Ill. and Ind. ....	11, 64	Kenosha Harbor, Wis. ....	46, 72
Calumet-Sag Channel, Ill. ....	9, 64	Kewaunee Harbor, Wis. ....	46, 72
Chicago Harbor, Ill. ....	20, 65	Keweenaw Waterway, Mich. ....	47, 72
Chicago River (Main and North		Knife River Harbor, Minn. ....	5, 63
Branch), Ill. ....	6, 64	L	
Chicago River (South Branch), Ill. ....	7, 64	Lac La Belle Harbor, Mich. ....	47, 72
Chicago Sanitary and Ship Canal, Ill. ....	8, 64	Lake Calumet, Ill. ....	10, 64
Lake Calumet, Ill. ....	10, 64	Lake St. Clair, Channels in, Mich. ....	36, 70
Chicago River (Main and North Branch),		La Pointe Harbor, Wis. ....	5, 63
Ill. ....	6, 64	Leland Harbor, Mich. ....	47, 73
Chicago River (South Branch), Ill. ....	7, 64	Lime Island, Mich. ....	47, 73
Chicago Sanitary and Ship Canal, Ill. ....	8, 64	Lorain Harbor, Ohio .....	51, 75
Chippewa Harbor (Isle Royale), Mich. ....	5, 63	Ludington Harbor, Mich. ....	26, 67
Cleveland Harbor, Ohio .....	51, 75	Lutsen Harbor, Minn. ....	5, 63
Commodity Classification .....	IX	M	
Conneaut Harbor, Ohio .....	53, 76	Mackinac Harbor, Mich. ....	47, 73
Cornucopia Harbor, Wis. ....	5, 63	Mackinaw City Harbor, Mich. ....	47, 73
D		Manistee Harbor, Mich. ....	47, 73
Detour, Mich. ....	46, 72	Manistique Harbor, Mich. ....	47, 73
Detroit Harbor, Wis. ....	46, 72	Manitowoc Harbor, Wis. ....	47, 73
Detroit, Mich., Port of .....	43, 71	Marblehead, Ohio .....	48, 74
Detroit Harbor, Mich. ....	40, 70	Marine City, Mich. ....	35, 70
Ecorse, Mich. ....	46, 72	Marquette Harbor, Mich. ....	21, 66
Rouge River, Mich. ....	42, 71	Marysville, Mich. ....	34, 69
Trenton, Mich. ....	43, 71	Menominee Harbor and River,	
Wyandotte, Mich. ....	48, 74	Mich. and Wis. ....	47, 73
Detroit River, Mich. ....	38, 70	Michigan City Harbor, Ind. ....	20, 65
Drummond Island, Mich. ....	25, 67	Milwaukee Harbor, Wis. ....	29, 68
Duluth-Superior Harbor, Minn. and Wis. ....	3, 63	Monroe Harbor, Mich. ....	44, 71
Dunkirk Harbor, N. Y. ....	57, 77	Muskegon Harbor, Mich. ....	27, 67
E			
Eagle Harbor, Mich. ....	46, 72		
Ecorse, Mich. ....	46, 72		
Erie Harbor, Pa. ....	53, 76		
Escanaba, Mich. ....	48, 74		

N		S	
New Buffalo Harbor, Mich. -----	47, 73	Saugatuck Harbor and Kalamazoo River, Mich. -----	47, 73
Niagara Falls, N. Y. -----	57, 77	Sault Ste. Marie, Mich. -----	47, 73
Niagara River, N. Y. -----	55, 77	Sebewaing Mich. -----	48, 73
O		Sheboygan Harbor, Wis. -----	29, 68
Oconto Harbor, Wis. -----	47, 73	South Haven Harbor, Mich. -----	48, 73
Ogdenburg Harbor, N. Y. -----	57, 78	Stoneport, Mich. -----	48, 74
Ontonagon Harbor, Mich. -----	21, 66	Sturgeon Bay and Lake Michigan Ship Canal, Wis. -----	33, 73
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P		Freight Tons by Area -----	XIII
Pensaukee Harbor, Wis. -----	47, 73	Freight Tons by Commodity -----	XIV
Pentwater Harbor, Mich. -----	47, 73	Ton-Miles by Area -----	XII
Port Clinton Harbor, Ohio -----	57, 78	T	
Port Dolomite, Mich. -----	48, 74	Taconite Harbor, Minn. -----	5, 63
Port Gypsum, Mich. -----	48, 74	Toledo Harbor, Ohio -----	49, 75
Port Huron, Mich. -----	34, 69	Tonawanda Harbor, N. Y. -----	57, 78
Port Inland, Mich. -----	48, 74	Ton Mileage of Freight Carried on Great Lakes -----	XII
Port of Buffalo, N. Y. -----	55, 77	Traverse City Harbor, Mich. -----	26, 67
Port of Chicago, Ill. -----	13, 65	Trenton, Mich. -----	43, 71
Port of Detroit, Mich. -----	43, 71	Two Harbors (Agate Bay), Minn. -----	3, 63
Port Sanilac Harbor, Mich. -----	47, 73	Two Rivers Harbor, Wis. -----	48, 73
Port Washington Harbor, Wis. -----	47, 73	V	
Port Wing Harbor, Wis. -----	5, 63	Vermilion Harbor, Ohio -----	57, 78
Presque Isle Harbor, Mich. -----	21, 66	W	
Put-In-Bay Harbor, Ohio -----	47, 73	Waddington Harbor, N. Y. -----	57, 78
R		Warroad Harbor, Minn. -----	5, 63
Racine Harbor, Wisc. -----	47, 73	Waukegan Harbor, Ill. -----	6, 64
Rochester (Charlotte) Harbor, N. Y. -----	57, 78	White Lake Harbor, Mich. -----	48, 73
Rogers City, Mich. -----	47, 73	Whitefish Point Harbor, Mich. -----	48, 73
Rouge River, Mich. -----	42, 71	Wyandotte, Mich. -----	48, 74
S			
Sackett Harbor, N. Y. -----	57, 78		
Saginaw River, Mich. -----	31, 69		
St. Clair, Mich. -----	35, 70		
St. Clair River, Mich. -----	31, 69		
St. James (Beaver Island), Mich. -----	48, 73		
St. Joseph Harbor, Mich. -----	28, 68		
St. Marys Fall Canal, Mich. and Ont. -----	23, 66		
St. Marys River, Mich. -----	22, 66		
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